

**GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)****KUMBAKONAM – 612 001***Affiliated to Bharathidasan University***DST - CURIE Sponsored Institution****IV Cycle of Accreditation**

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**RESEARCH PROJECT DETAILS**  
**DEPARTMENT OF CHEMISTRY- 2018 - 2019**

SL.No	ROLL NUMBER	NAME	DETAILS OF ACTIVITY
1	P17CH001	AISHWARYA.R	STUDIES ON THE EFFECT OF NEGUNDO ON GERMINATION AND PLANT GROWTH OF ABELMOSCHUS ESCULENTUS
2	P17CH002	AKILA.S	STUDIES ON THE EFFECT OF JUSTICA ADHATODA ON GERMINATION AND PLANT GROWTH OF TRIGONELLA FOENUM GRAECUM (L)
3	P17CH003	AKILANDESWARI.B	PHOTOCATALYTIC DEGRADATION OF CONGO RED DYE IN AQUEOUS SOLUTION UNDER SUNLIGHT USING SYNTHESIZED CaO NANOPARTICLES FROM WASTE CHICKEN EGG SHELLS
4	P17CH005	DHIVYA.P	ANTIMICROBIAL ACTIVITY OF FLOWER EXTRACT FROM CATHARANTHUS ROSEUS AGAINST A HUMAN PATHOGENIC BACTERIA
5	P17CH006	DHIVYASRI.A	WASTEWATER TREATMENT USING PHOTOCATALYST COBALT OXIDE
6	P17CH009	JAYAPRIYA.J	REMOVAL OF CU(II) IONS FROM AQUEOUS SOLUTION USING ACALYPHA INDICA
7	P17CH009	KAVIYA SELVI.P	PHYTOCHEMICAL INVESTIGATION AND ANTIMICRO ACTIVITY OF LEUCAS ASPERA
8	P17CH010	MAHALAKSHMI.K	PHYTOCHEMICAL INVESTIGATION AND ANTIMICROBIAL ACTIVITY OF ETHANOL EXTRACT FROM NYMPHAEA ALBA (POLLEN)
9	P17CH011	MAHALAKSHMI.R	EXTRACTION OF SILVER FROM WASTE X - RAY FLIMS USING COCOA HUSK ASH SOLUTION
10	P17CH012	NIRMALA.P	PHYTOCHEMICAL INVESTIGATION AND ANTIMICROBIAL ACTIVITY OF NYMPHAEA ALBA
11	P17CH013	NITHYA.G	WASTE WATER TREATMENT USING PHOTOCATALYST COBALT FERRIATE OXIDE
12	P17CH014	NIVETHA.M	EXTRACTION OF SILVER FROM WASTE X- RAY FLIMS USING COCONUT SHELL AQUEOUS EXTRACT
13	P17CH015	PAVITHRA.R	EXTRACTION OF SILVER FROM WASTE X- RAY FLIMS USING UNRIPE PLANTAIN PEEL ASH SOLUTION
14	P17CH016	RAMYA.P	ANTI-MICROBIAL ACTIVITY OF ETHANOLIC FLOWER EXTRACT FROM ECLIPTA PROSTRATA AGAINST A HUMAN PATHOGEN BACTERIA

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15	P17CH017	SANGAVI.S	STUDIES ON THE EFFECT OF PUNICA GRANATUM ON GERMINATION AND PLANT GROWTH OF VIGNA RADIATA (L)
16	P17CH018	SANTHANA LAKSHMI.K	PHOTOCATALYTIC DEGRADATION OF RHODAMINE B DYE IN AQUEOUS SOLUTION UNDER SUNLIGHT USING SYNTHESIZED CaO NANOPARTICLES FROM WASTE CHICKEN EGG SHELLS
17	P17CH019	SARANGA DHARANI.S	REMOVAL OF Pb(II) IONS FROM AQUEOUS SOLUTION USING HIBISCUS ROSASINENSIS
18	P17CH020	SHARMILA.R	ANTI-MICROBIAL ACTIVITY OF MIRABILIS JALAPA AGAINST A HUMAN PATHOGEN BACTERIA
19	P17CH021	SINDHUJA.G	REMOVAL OF Ni(II) IONS FROM AQUEOUS SOLUTION USING CARDIOSPERMUM HALICAXABUM
20	P17CH022	SURUTHI.S	WASTEWATER TREATMENT USING PHOTOCATALYST GRAPHINE OXIDE



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**DEPARTMENT OF CHEMISTRY- 2019 – 2020**

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1	P18CH001	A.AARTHINI	PHYTOCHEMICAL SCREENING AND PHARMACOLOGICAL ACTIVITY OF ECLIPTA PROSTRATA LEAVES
2	P18CH002	S.S. ABIRAMI	ANTI-DIABETIC ACTIVITY OF THE ISOLATED POLYPHENOLIC DRUGS FROM THE FLOWERS OF SENA ALATA
3	P18CH003	N.BAMA	A STUDY OF SYNTHESIS OF PHENYTOIN COMPOUND AND ITS BIOLOGICAL ACTIVITY
4	P18CH004	A.BHUVANESWARI	CHARACTERIZATION AND ANTI-BACTERIAL ACTIVITY OF Fe NANOPARTICLES USING LAGENARIA SICERARIA LEAF EXTRACT
5	P18CH005	B.DHIVYA	A STUDY ON SYNTHESIS OF BENZOCAINE AND ITS BIOLOGICAL ACTIVITY
6	P18CH006	T.S.GAYATHRI	PHOTOCATALYTIC DEGRADATION OF METHYL ORANGE DYE BY SYNTHESIZED IRON OXIDE NANO PARTICLES
7	P18CH007	S.ISWARYA	IN VITRO ANTIBACTERIAL ACTIVITY OF LEAF EXTRACT OF AERVA LANATA
8	P18CH008	P.KAVIPRIYA	A COMPARATIVE STUDY ON PHYSICO-CHEMICAL PARAMETERS OF AQUA AND CORPORATION WATER FROM THIRUVARUR DISTRICT
9	P18CH009	R.KEERTHANA	BIO SYNTHESIS,CHARACTERIZATION OF ZINC OXIDE NANOPARTICLES USING LEAF EXTRACT OF ALOEVERA, AND ITS EVALUATION OF ITS ANTI-BACTERIAL ACTIVITY
10	P18CH010	R.LAKSHMI	GREEN SYNTHESIS,CHARACTERIZATION AND ANTI-BACTERIAL ACTIVITY OF Zr NANOPARTICLES AGAINST GRAM POSITIVE AND GRAM NEGATIVE BACTERIA USING ACALYPHA INDICA
11	P18CH011	M.MAHALAKSHMI	PHOTOCATALYTIC DEGRADATION OF METHYL ORANGE DYE BY SYNTHESIZED ZnO NANOPARTICLES
12	P18CH012	R.MANJULA	PHYTOCHEMICAL SCREENING AND ANTI-BACTERIAL ACTIVITY OF PHYLLANTHUS AMARUS

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13	P18CH013	S.MEENA	REMOVAL OF Cd(II) IONS FROM AQUEOUS SOLUTION USING VITEX NEGUNDO
14	P18CH014	S.MEENA	REMOVAL OF Pb(II) IONS FROM AQUEOUS SOLUTION USING CATHARANTHUS ROSEUS
15	P18CH015	H.MONALISA	EVALUATION OF PHYTOCHEMICAL SCREENING AND ANTI-MICROBIAL ACTIVITIES OF SINAPIS ALBA SEEDS AGAINST SELECTED MICROORGANISMS
16	P18CH016	R.NANDHINI	A STUDY ON PHYTOCHEMICAL FROM LAWSONIA INTERMIS AND ITS ANTI-CORROSION AND ITS ANTI-OXIDANT ACTIVITY
17	P18CH017	K.NESAVANI	SYNTHESIS AND CHARACTERIZATION OF SILVER NANOPARTICLE USING CETELLA ASIATICA AND EVALUATION OF ANTI-BACTERIAL AND ANTI-INFLAMMATORY ACTIVITY
18	P18CH018	S.NIVETHITHA	STUDIES ON SILVER NANOPARTICLES FROM ANDROGRAPHIS PANICULATA LEAVES EXTRACT AND THEIR BIOLOGICAL ACTIVITIES
19	P18CH019	S.RAMYA	ANALYSIS OF PHYSICO-CHEMICAL CHARACTERS OF BORE WELL AND CORPORATION WATER FROM KUMBAKONAM
20	P18CH020	R.RANJITHA	ANTI CORROSION AND ANTIOXIDANT ACTIVITIES OF TERMINALIA CHEBULA SEED
21	P18CH021	C.SABITHA	GREEN SYTHESIS, CHARACTERIZATION AND ANTI-BACTERIAL ACTIVITY OF Cu NANOPARTICLES AGAINST GRAM POSITIVE, GRAM NEGATIVE BACTERIA USING ABUTLON INDICUM LEAF EXTRACT
22	P18CH022	C.SAGAYAPRISLIN	PHYSICO-CHEMICAL PARAMETERS OF CORPORATION WATER AND AQUA PACKAGED WATER FROM KORADACHERI
23	P18CH023	R.SARANYA	PREPARATION, CHARACTERIZATION AND ANTI-HEMOCOMPATIBILITY ACTIVITY OF TWEEN 80 ORGANOGEL
24	P18CH024	R.SUSHMITHA	EVALUATION OF ANTI BACTERIAL ACTIVITY OF GREEN SYNTHEIZED Cd NANOPARTICLES USING ACALYPHA INDICA



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**RESEARCH PROJECT DETAILS**  
**DEPARTMENT OF CHEMISTRY- 2020- 2021**

SL.No	ROLL NUMBER	NAME	DETAILS OF ACTIVITY
1	P19CH001	M.AARTHI	RECOVERY OF MANGANESE OXIDE NANOPARTICLES FROM BATTERY AND EVALUATION OF ITS ANTI OXIDANT AND ANTI BACTERIAL ACTIVITY
2	P19CH003	B.BHARATHI	REMOVAL OF CONGO RED DYE FROM AQUEOUS SOLUTION USING ACID ACTIVATED CARBON PREPARED FROM THE AERIAL ROOT OF FICUS BENGHALENSIS.L
3	P19CH004	R.DEVAKI	ADSORPTION OF 2,4-D SODIUM SALT HERBICIDES FROM AQUEOUS SOLUTION ONTO COCONUT HUSK ACTIVATED CARBON
4	P19CH005	N.DHIVYA	PHYTOCHEMICAL SCREENING AND ANTI BACTERIAL ACTIVITY OF CARCIA PAPAYA
5	P19CH006	R.DURGARANI	A STUDY OF SOIL ANALYSIS OF CULTIVABLE LANDS FROM VARIOUS DISTRICTS
6	P19CH007	K.JAYALAKSHMI	RECOVERY OF ALUMINIUM OXIDES NANOPARTICLES FROM INDUSTRIAL WASTE JUICE CANS AND EVALUATION OF ITS ANTI BACTERIAL ACTIVITY AND ANTI OXIDANT ACTIVITY
7	P19CH008	G.KAMALI	PHYTOCHEMICAL INVESTIGATION OF ACALYPHA FRUTICOSA
8	P19CH009	M.KIRIJA	DYE AND WASTE TREATMENT USING PHOTOCATALYST ZINC OXIDE
9	P19CH011	MAHESWARIS	DYE DEGRADATION AND WASTE WATER TREATMENT USING PHOTOCATALYST COPPER OXIDE
10	P19CH013	NIVETHA.K	ADSORPTIVE BEHAVIOUR OF DIVALENT NICKEL ION ONTO ACID ACTIVATED CARBON PREPARED FROM DELONIX REGIA PODS
11	P19CH014	NIVETHA.K	PHYTOCHEMICAL SCREENING AND ANTI-OXIDANTS ACTIVITY OF ECLIPTA PROSTRATA

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12	P19CH016	PRABHAVATHY.A	DYEING OF COTTON CLOTH WITH NATURAL DYE EXTRACTED FROM POMEGRANATE PEEL AND ITS FASTNESS
13	P19CH017	PREETHA.U	PHYTOCHEMICAL SCREENING AND ANTI-OXIDANTS ACTIVITY OF ABUTILON INDICUM
14	P19CH018	RAMYA.E	ADSORPTION OF 2,4-D SODIUM SALT HERBICIDES FROM AQUEOUS SOLUTION ONTO CORN COB ACTIVATED CARBON
15	P19CH019	SANGAVIE	A STUDY OF SOIL ANALYSIS OF CULTIVABLE LANDS AND UNCULTIVABLE LANDS IN THANJAVUR DISTRICT
16	P19CH020	SANTHIYA.V	EVALUATION OF PHYTOCHEMICAL COMPOSITION IN ANDROGRAPHS PANICULATA
17	P19CH022	SURYA.S	CHARACTERIZATION AND ANTI-BACTERIAL ACTIVITY OF GREEN SYNTHESIZED CO NANOPARTICLES USING SACCHARUMOFFICINARUM EXTRACT
18	P19CH023	TAMILARASI.K	BATCH ADSORPTION STUDIES ON THE REMOVAL OF Cr(VI) ION FROM AQUEOUS SOLUTION USING POTASSIUM HYDROXIDE ACTIVATED CARBON FROM THE AERIAL ROOT OF FICUS BENGHALENSIS.L
19	P19CH024	TAMIL MANI.M	RECOVERY OF COPPER OXIDE (CuO) NANOPARTICLES FROM WASTE SIM CARD AND EVALUATION OF ITS ANTI-BACTERIAL AND ANTI-OXIDANT ACTIVITY
20	P19CH025	VASUKI.S	RECOVERY OF COPPER OXIDE NANOPARTICLES GREEN SYNTHESIS FROM IXORA COCCINEA AND ITS ANTI-BACTERIAL ACTIVITY



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**RESEARCH PROJECT DETAILS**  
**DEPARTMENT OF CHEMISTRY- 2021- 2022**

SL.No	ROLL NUMBER	NAME	DETAILS OF ACTIVITY
1	P20CH001	ARTHI.K	FORMULATION AND EVALUATION OF MEDICATED SOAP OF AZADIRACHTA INDICA LEAF EXTRACT
2	P20CH002	ARTHI.N	A STUDY OF SOIL ANALYSIS ON CULTIVABLE LANDS AND NON-CULTIVABLE LANDS
3	P20CH003	ARUNA.M	ANALYSIS OF PHYTO-CONSTITUENTS AND EVALUATION OF INVITRO HEPATOPROTECTIVE ACTIVITY OF VITEX NEGUNDO EXTRACT
4	P20CH004	DURGA DEVI.S	PHYTOCHEMICALS AND EVALUATION OF IN VITRO ANTIUROLITHIATIC ACTIVITY OF CYPERUS ROTUNDUS RHIZOME
5	P20CH005	ELAKIYA.N	IDENTIFICATION OF PHYTOCHEMICAL AND EVALUATION OF INVITRO ANTI-DIABETIC ACTIVITY OF DELONIXELATA LEAVES
6	P20CH006	GAYATHRI.S	PHOTOCATALYTIC DEGRADATION OF METHYL ORANGE DYE BY SYNTHESIZED NICKEL OXIDE NANOPARTICLES.
7	P20CH007	KANIMOZHI.K	RECOVERY OF ALUMINIUM HYDROXIDE NANOPARTICLES FROM USED ALUMINIUM FOIL AND EVALUATION OF ITS ANTI BACTERIAL ACTIVITY.
8	P20CH008	KOUSALYA.S	PHYTOCHEMICAL SCREENING AND ANTI-BACTERIAL ACTIVITY OF CINNAMON VERUM
9	P20CH009	MATHIVATHANI.T	OPTIMIZATION OF Cr(IV) ION SORPTION POTENTIAL FROM AN AQUEOUS SOLUTION ONTO PRUNUS SULCIS-SHELL ACTIVATED CARBON
10	P20CH011	PRIYADHARSHINI.E	GREEN SYNTHESIS OF COPPER OXIDE NANOPARTICLES USING MANGIFERA INDICA LEAVES EXTRACT AND EVALUATION OF ITS ANTI BACTERIAL ACTIVITY ON GRAM POSITIVE AND GRAM NEGATIVE.
11	P20CH012	PRIYADARSHINI.M	A STUDY ON BIO ACTIVE COMPOUNDS SCREENING AND EVALUATION OF ANTI MITOTIC ACTIVITY OF STRYCHNOS POTATORUM SEEDS.
12	P20CH013	RAMYA.A	LONG ABSENT

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13	P20CH014	RAMYA.K	CORROSION INHIBITION OF MILD STEEL IN ACID MEDIUM USING ALTERNANTHERA BETTZICKIA LEAVES
14	P20CH015	RANI.T	A STUDY OF QUALITATIVE, QUANTITATIVE ANALYSIS OF PHYTOCHEMICAL AND EVALUATION OF ANTI STRESSES ACTIVITY OF SYZYGIUM CUMINI SEEDS.
15	P20CH016	RANJANI.D	GREEN SYNTHESIS OF COPPER OXIDE NANOPARTICLES USING PSIDIUM GUAJAVA LEAF EXTRACT AND EVALUATION OF ITS ANTI BACTERIAL ACTIVITY
16	P20CH017	SINEHA.A	PHOTOCATALYTIC DEGRADATION OF METHYL ORANGE DYE BY SYNTHESIZED ZONC OXIDE NANOPARTICLES
17	P20CH018	SIVAPRIYA.M	ANALYSIS OF PHYTO-ORGANIC COMPOUNDS AND ASSESSMENT OF IN VITRO ANTI-ARTHRITIC ACTIVITY MIMOSA PUDICA LEAVES EXTRACT
18	P20CH019	SOWMIYA.B	PHOTOCATALYTIC DEGRADATION OF METHYL ORANGE DYE BY SYNTHESIZED ZIRCONIUM OXIDE NANOPARTICLES
19	P20CH020	SUBASHINI.S	SYNTHESIS, CHARACTERISATION OF COPPER OXIDE NANOPARTICLES USING AEGLE MARMELOS LEAVES AND EVALUATION OF ANTI-OBESITY ACTIVITY
20	P20CH021	UTHAYA SURIYA.K	PHYTOCHEMICAL INVESTIGATION AND IN VITRO ANTI INFLAMMATORY ACTIVITY OF TINOSPORA CORDIFOLIA LEAVES
21	P20CH022	UMA.R	PHYTOCHEMICAL SCREENING AND ANTIMICROBIAL ACTIVITY OF CASSIA AURICULATA.
22	P20CH023	UMAL FAGIRIYA BEGUM.A	PHOTO CATALYTIC DEGRADATION OF METHYL ORANGE DYE BY SYNTHESIZED MANGANESE OXIDE NANOPARTICLES.
23	P20CH024	VINODHINI.S	GREEN SYNTHESIZED OF ZINC OXIDE NANOPARTICLES USING CASSIA AURICULATA LEAVES EXTRACT AND EVALUATION OF ITS ANTI BACTERIAL ACTIVITY ON GRAM POSITIVE AND GRAM NEGATIVE



  
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**RESEARCH PROJECT DETAILS**  
**DEPARTMENT OF CHEMISTRY- 2022- 2023**

SL.No	ROLL NUMBER	NAME	DETAILS OF ACTIVITY
1	P21CH001	R.ABIRAMI	RECOVERY OF ZINC OXIDE (ZNO) NANOPARTICLES FROM WASTE BATTERY AND EVALUATION OF ITS ANTIBACTERIAL ACTIVITY AGAINST GRAM POSITIVE AND GRAM NEGATIVE BACTERIA
2	P21CH002	R.ABIRAMI	PHYTOCHEMICAL SCREENING AND ANTI-BACTERIAL ACTIVITY OF PIPEL BETEL
3	P21CH003	G.ABITHA	PHYTOCHEMICAL SCREENING AND VITRO ANTI-BACTERIAL ACTIVITY OF OCIMUM SANTUM LEAVES EXTRACTS
4	P21CH004	G.ANUSUYA	EXTRACTION OF NATURAL DYE FROM CHRYSANTHEMUM INDICUM AND ITS APPLICATION AS ANTIBACTERIAL DYES FOR COTTON CLOTH.
5	P21CH005	E.DURGA	A STUDY OF CULTIVABLE AND UNCULTIVABLE LANDS IN VARIOUS TALUK AT THIRUVARUR DISTRICT.
6	P21CH006	D.GOWSALYA	GREEN SYNTHESIS OF ZINC OXIDE NANOPARTICLES FROM MURAYA KOPENIGII AND EVALUATION OF ITS ANTIBACTERIAL ACTIVITIES.
7	P21CH007	G.HARITHA	PHYTOCHEMICAL SCREENING AND ANTI-BACTERIAL ACTIVITY OF PHYLLANTHUS EMBLICA.
8	P21CH008	B.ISWARYA	DETERMINATION OF BIOACTIVE COMPOUNDS AND ASSESSMENT OF ANTI-STRESS ACTIVITY OF PUNICA GRANATUM PEEL EXTRACT.
9	P21CH009	M.JAYA	A STUDY OF PHYTOCHEMICAL ANALYSIS AND ANTI-BACTERIAL ACTIVITY OF FICUS CARICA FRUITS.
10	P21CH010	K.KALAIVANI	ANTI-LUNG CANCER ACTIVITY OF PHYTOCONSTITUENTS FROM OCIMUM SANTUM AGAINST SERINE PROTEASE INHIBITOR KAZAL-7.
11	P21CH011	M.KAVITHA	PHYTOCHEMICAL PROFILING AND EVALUATION OF INVITRO ANTIOXIDANT ACTIVITY OF ALOE VERA.

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12	P21CH013	M.MANIMOZHI	GREEN SYNTHESIS OF IRON OXIDE NANOPARTICLES FROM GREEN TEA EXTRACT AND EVALUATION OF ITS ANTIBACTERIAL ACTIVITY AGAINST GRAM POSITIVE AND GRAM NEGATIVE BACTERIA.
13	P21CH014	S.MEERA	RECOVERY OF COPPER OXIDE(CUO)NANOPARTICLES FROM WASTE DEPOPULATED CIRCUIT BOARD AND EVALUATION OF ITS ANTIBACTERIAL ACTIVITY AGAINST GRAM POSITIVE AND GRAM NEGATIVE BACTERIA.
14	P21CH015	L.NANDHINI	THROMBOLYTIC ACTIVITY AND EVALUATION OF PHYTOCHEMICAL SCREENING IN BAUHINA VARIEGATA LEAVES EXTRACTS.
15	P21CH016	M.NIRMALA	PHYTOCHEMICAL ANALYSIS AND ANTIUROLITHIATIC ACTIVITY USING PHILLANTHUS NIRURI LEAVES EXTRACT.
16	P21CH017	R.NITHYA	A STUDY OF CULTIVABLE AND UNCULTIVABLE LANDS FROM VARIOUS GRAM PANCHAYAT AT THIRUVIDAIMARUTHUR TALUK.
17	P21CH018	R.NIVETHA	GREEN ROUTE TO SYNTHESIZE ZINC OXIDE(ZNO)NANOPARTICLES USING LEAF EXTRACTS OF ALOE VERA (ALOE BARBADENSIS MILLER) AND THEIR ANTIBACTERIAL POTENTIAL AGAINST GRAM POSITIVE AND GRAM NEGATIVE BACTERIA.
18	P21CH019	V.POORANI	INVESTIGATION ON PHYTOCHEMICAL CHARACTERIZATION AND INVITRO ANTIUROLITHIATIC ACTIVITY OF TRIBULUS TERRESTRIS THORN EXTRACT.
19	P21CH020	B.POWLINMARY	A STUDY ON PHYTOCHEMICAL USING DIFFERENT EXTRACTION TECHNIQUES AND EVALUATION OF ANTIBACTERIAL ACTIVITY OF OCIMUM SANCTUM LEAVES.
20	P21CH021	N.SARANYA	RECOVERY OF IRON OXIDE NANOPARTICLES FROM WASTE INCENSE STICK AND ITS EVALUATION ON ANTIBACTERIAL ACTIVITY.
21	P21CH022	J.SEYALVIZHI	NATURAL DYE EXTRACTION FROM BOUGAINVILLEA GLABRA EXTRACT APPLIED TO COTTON CLOTH AND EVALUATION OF ANTIBACTERIAL ACTIVITY.
22	P21CH023	S.SIVAPRIYA	PHYTOCHEMICAL SCREENING AND ANTI-BACTERIAL ACTIVITY OF ABUTILON INDICUM.

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23	P21CH024	G.SOWMIYA	ANTI-VAGINAL CANCER ACTIVITY OF PHYTOCONSTITUENTS FROM OCIMUM BASILLICUM AGAINST SERINE PROTEASE INHIBITOR KAZAL-7.
24	P21CH025	J.SURUTHI	PHYTOCHEMICAL EVALUATION OF EUCALYPTUS GLOBULUS LEAVES AND ITS PHOTOCATALYTIC ACTIVITY UNDER SODIUM LIGHT IRRADIATION.
25	P21CH026	K.VIGNESHWARI	A STUDY OF SOIL ANALYSIS OF CULTIVABLE AND UNCULTIVABLE LANDS IN VARIOUS TALUK AT VILLUPURAM DISTRICT.
26	P21CH027	R.YOGESWARI	ANTI-BREAST CANCER ACTIVITY OF PHYTOCONSTITUENTS FROM LEUCUS ASPERA AGAINST EXPORTIN-1.

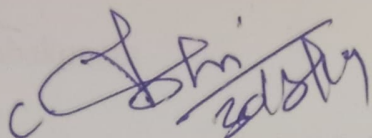


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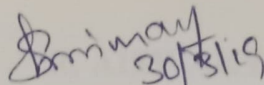
Dr. S. JASMINE MARY, M.Sc., M.Phil., Ph.D.,  
LECTURER IN CHEMISTRY  
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APRIL - 2019

## CERTIFICATE

This is to certify that the thesis entitled “ **STUDIES ON THE EFFECT OF VITEX NEGUNDO ON GERMINATION AND PLANT GROWTH OF ABELMOSCHUS ESCULENTUS** ” is a bonofide record of the research work Carried out by **R. AISWARYA** under my guidance and supervision and that the thesis has not previously formed the basis for the award of any Degree, Diploma, Fellowship or any other similar title to the candidate. It is also certified that the work embodied in this thesis was carried out entirely by **R. AISWARYA.**

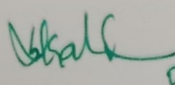
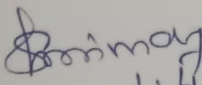


Dr. C. JAYANTHI, MSc., M.Phil., Ph.D.,  
Head of the Department



Dr. S. JASMINE MARY,  
(Project Advisor)

### EXAMINERS:

- 1)  01/04/2019. (Dr. S. Kalyana Sundharan)
- 2)  1.4.19.

Dr.S.Kalyanasundharam, M.Sc., M.Phil., Ph.D.  
Associate Professor & Head,  
PG & Research Dept. of Chemistry,  
Poompuh College, Melaiyur-600 102



Dr. S. JASMINE MARY, M.Sc., M.Phil., Ph.D.,

LECTURER IN CHEMISTRY

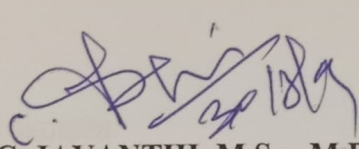
GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)

KUMBAKONAM-612 001

APRIL - 2019

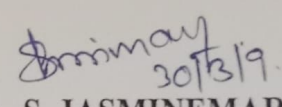
CERTIFICATE

This is to certify that the thesis entitled "STUDIES ON THE EFFECT OF *JUSTICA ADATODA* ON GERMINATION AND PLANT GROWTH OF *TRIGONELLA FOENUM GRAECUM (L)*" is a bonofide record of the research work Carried out by S. AKILA under my guidance and supervision and that the thesis has not previously formed the basis for the award of any Degree, Diploma, Fellowship or any other similar title to the candidate. It is also certified that the work embodied in this thesis was carried out entirely by S. AKILA.



Dr. C. JAYANTHI, M.Sc., M.Phil., Ph.D.,

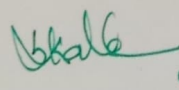
Head of the Department



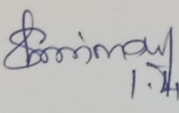
Dr. S. JASMINEMARY,

Project Advisor

EXAMINERS:

1)  01.04.2019

Dr.S.Kalyanasundharam, M.Sc., M.Phil., Ph.D.  
Associate Professor & Head,  
PG & Research Dept. of Chemistry,  
Poompuh: College, Melaiyur-609 001

2)  1.4.19

Mrs. P. SRIMATHI M.Sc., M.Phil., B.Ed., Ph.D.,

(Lecturer in Chemistry )

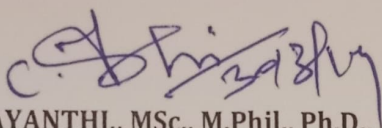
Government College for Women (Autonomous).

Department of chemistry,

Kumbakonam-612 001

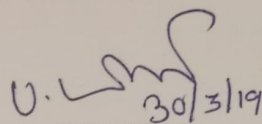
### CERTIFICATE

This is to certify that the project work entitled "PHOTO CATALYTIC DEGRADATION OF CONGO RED DYE IN AQUEOUS SOLUTION UNDER SUNLIGHT USING SYNTHESIZED CaO NANOPARTICLES FROM WASTE CHICKEN EGG SHELLS" Submitted by B. AKILANDESHWARI was done under my guidance in partial fulfilment of the requirements for the degree of **MASTER OF SCIENCE**, during the academic year **2018-2019** in the faculty of Chemistry is the original work of the candidate.



Dr. C. JAYANTHI., MSc., M.Phil., Ph.D.,

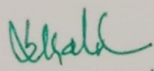
Head & Assistant Professor of Chemistry



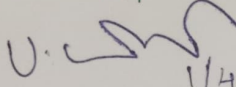
Mrs. P. SRIMATHI

(Project Advisor)

### EXAMINERS

1)  01/04/2019

(Dr. S. Kalyanasundharan)

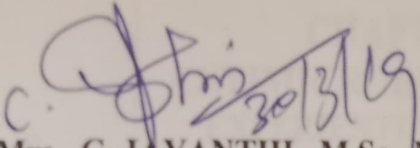
2)  1/4/19

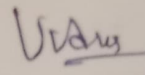
Mrs. V. ANU., M.Sc., M. Phil., Ph.D.,  
Lecturer in Chemistry

Government College for Women  
(Autonomous)  
Kumbakonam-612001

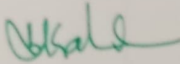
## CERTIFICATE

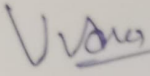
This is to certify that the project work entitled "PHYTO  
CHEMICAL INVESTIGATION AND ANTIMICROBIAL  
ACTIVITY OF LEUCAS ASPERA " submitted by MISS.P.  
KAVIYASELVI was done under my guidance in partial fulfilment of the  
requirements for the award of MASTER OF SCIENCE in CHEMISTRY  
to the Bharathidasan University, during the academic year 2018-2019 is  
the original work of the candidate.

  
Dr. Mrs., C. JAYANTHI., M.Sc., M. Phil., Ph.D  
HEAD OF THE DEPARTMENT

  
Mrs .V. ANU  
PROJECT ADVISOR

## EXAMINERS

1.  01.04.2019

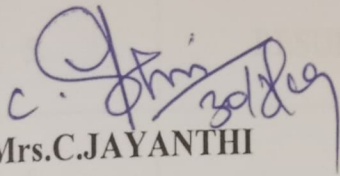
2.  01/05/19

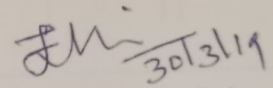
Dr.S.Kalyanasundharam, M.Sc., M.Phil., Ph.D.  
Associate Professor & Head,  
PG & Research Dept. of Chemistry,  
Poompuh College, Melaiyur-609 107

Mrs.VIMALA M.sc., M.Phil., B.Ed. PGDCA., Ph.D.,  
(Lecturer in Chemistry),  
Government College for women (Autonomous),  
Department of Chemistry,  
Kumbakonam-612 001.

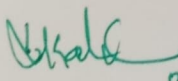
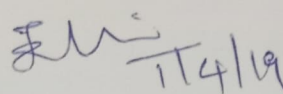
## CERTIFICATE

This is to certify that the project work entitled  
"ANTI-MICROBIAL ACTIVITY OF FLOWER EXTRACT FROM  
CATHARANTHUS ROSEUS AGAINST A HUMAN PATHOGENIC  
BACTERIA" Submitted by Miss.P.DIVYA was done under my guidance  
in partial fulfillment to the requirement for the degree of MASTER OF  
SCIENCE, during the academic year 2018-2019 in the faculty of  
chemistry is the original work of the candidate.

  
Dr. Mrs. C. JAYANTHI  
Head of the department

  
Mrs. K. VIMALA  
Project Advisor

## EXAMINERS

-   
01.04.2019
-   
11/4/19

Dr. S. Kalyanasundharam, M.Sc., M.Phil., Ph.D.  
Associate Professor & Head,  
PG & Research Dept. of Chemistry,  
Poompuhar College, Melaiyur-609 107.



Miss. S.VIJAYALAKSHMI, M.Sc., M.Phil.Ph. D

LECTURER IN CHEMISTRY

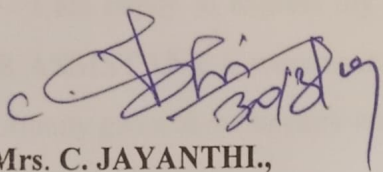
GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)

KUMBAKONAM-612 001.

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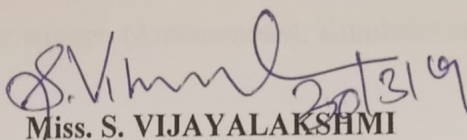
CERTIFICATE

This is certify that the dissertation work entitled "WASTE WATER TREATMENT USING PHOTOCATALYST COBALT OXIDE" submitted by Miss. A.DHIVYASRI was done under my guidance in partial fulfillment of the requirements for the degree of MASTER OF SCIENCE during the academic year 2017-2019 in the faculty of chemistry the original work of the candidate. This work is not submitted to another institution for the award of any degree or diploma.



Dr Mrs. C. JAYANTHI.,

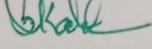
HEAD OF THE DEPARTMENT



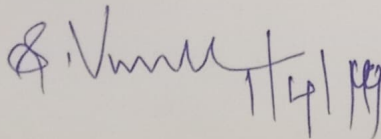
Miss. S. VIJAYALAKSHMI

PROJECT ADVISOR

EXAMINERS

1.  01.04.2019

Dr.S.Kalyanasundharam, M.Sc, M.Phil, Ph.D  
Associate Professor & Head,  
PG & Research Dept. of Chemistry,  
Poompuh College, Melaiyur-609 107

2.  11/4/19

Mrs.K. PUNITHA VALLI M.Sc., M.Phil.,

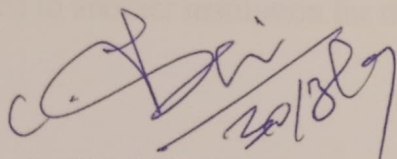
LECTURER IN CHEMISTRY

GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)

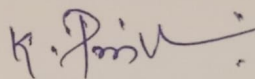
KUMBAKONAM – 612001.

### CERTIFICATE

This is to certify that the dissertation work entitled “REMOVAL OF Cu (II) IONS FROM AQUEOUS SOLUTION USING ACALYPHA INDICA” submitted by Miss. J. JAYAPRIYA was done under my guidance in partial fulfillment of the requirements for the degree of MASTER OF SCIENCE during the academic year 2016-2017 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for the award of any degree or diploma.



Mrs.Dr. C. JAYANTHI., M.Sc., M.Phil., Ph.D.,

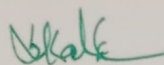


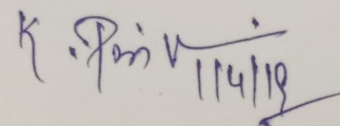
Mrs.K.PUNITHA VALLI

HEAD OF THE DEPARTMENT

(PROJECT ADVISOR)

### EXAMINERS

1.  01.04.2019

2.  11/4/19

Dr.S.Kalyanasundharam, M.Sc., M.Phil., Ph.D.  
Associate Professor & Head,  
PG & Research Dept. of Chemistry,  
Poompuh College, Melaiyur-605 005

Mrs.V. ANU., M.Sc., M. Phil., Ph.D.,

Lecturer in Chemistry

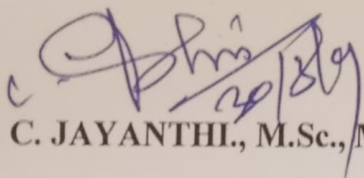
Government College for Women

(Autonomous)

Kumbakonam-612001

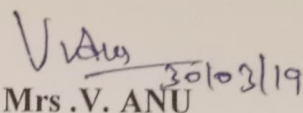
### CERTIFICATE

This is to certify that the project work entitled “ **PHYTOCHEMICAL INVESTIGATION AND ANTIMICROBIAL ACTIVITY OF ETHANOL EXTRACT FROM NYMPHAEA ALBA (POLLEN)** “ submitted by **MISS.K.MAHALAKSHMI** was done under my guidance in partial fulfilment of the requirements for the award of **MASTER OF SCIENCE** in **CHEMISTRY** to the Bharathidasan University , during the academic year **2018-2019** is the original work of the candidate.

  
Dr.Mrs. C. JAYANTHI., M.Sc., M. Phil., Ph.D

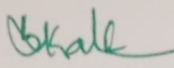
Dr.Mrs. C. JAYANTHI., M.Sc., M. Phil., Ph.D

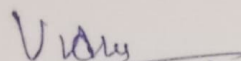
HEAD OF THE DEPARTMENT

  
Mrs .V. ANU

PROJECT ADVISOR

### EXAMINERS

1.  01.04.2019.

2.  01/04/19

Dr.S.Kalyanasundharam, M.Sc., M. Phil., Ph.D  
Associate Professor & Head,  
PG & Research Dept. of Chemistry  
Poompuh College, Melaiyur-609 102

Mrs.J.KANNAGI., M.Sc., M.Phil., B.Ed.,  
LECTURER IN CHEMISTRY,  
GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)  
KUMBAKONAM-621 001.

**CERTIFICATE**

This is to certify that the project work entitled “EXTRACTION OF SILVER FROM WASTE X-RAY FILMS USING COCOA HUSK ASH SOLUTION” Project work submitted by MISS.R.MAHALAKSHMI was done under my guidance in partial fulfillments of the requirements for the award of **MASTER OF SCIENCE** in **CHEMISTRY** to Government College for Women (Autonomous), kumbakonam affiliated to Bharathidasan University, Thiruchirappalli during the academic year 2018-2019. In this project work has not previously formed in the basis for the award of any Degree. I certify that this is the original work of the candidate.

*C Jayanthi*  
20/3/19

Dr. Mrs. C.JAYANTHI., M.Sc., M.Phil., Ph.D.,  
Head of the department of Chemistry

*Mrs J Kannagi*  
30/3/19

MrsJKANNAGI., M.Sc., M.Phil., B.Ed.,  
Project Advisor

**EXAMINERS**

1. *Bhalaj* 01-04-2019
2. *Mrs J Kannagi* 11/4/19

Dr.S.Kalyanasundharam, M.Sc, M.Phil.,  
Associate Professor & Head,  
PG & Research Dept. of Chemistry,  
Poompuh College, Melaiyur-602 002

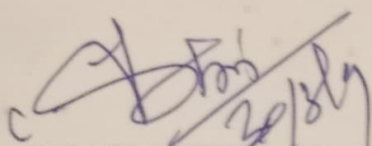


Mrs.V.ANU.,M.Sc.,M.Phil.,Ph.D.,  
Lecturer in Chemistry

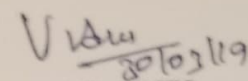
Government College for Women  
(Autonomous)  
Kumbakonam-612001

### CERTIFICATE

This is to certify that the project work entitled "PHYTOCHEMICAL INVESTIGATION AND ANTIMICROBIAL ACTIVITY OF NYMPHAEA ALBA" submitted by MISS.P.NIRMALA was done under my guidance in partial fulfilment of the requirements for the award of MASTER OF SCIENCE in CHEMISTRY to the Bharathidasan University, during the academic year 2018-2019 is the original work of the candidate.

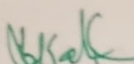
  
Mrs.C.JAYANTHI.,M.Sc.,M.Phil.,Ph.D

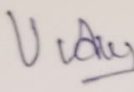
HEAD OF THE DEPARTMENT

  
Mrs.V.ANU

PROJECT ADVISOR

### EXAMINERS

1.  01.04.2019.

2.  01/04/19

Dr.S.Kalyanasundharam,M.Sc.,M.Phil.,Ph.D.  
Associate Professor & Head,  
PG & Research Dept. of Chemistry,  
Poompuh College, Malaiyur-609 101

Miss. S. VIJAYALAKSHMI, M.Sc., M.Phil., Ph. D

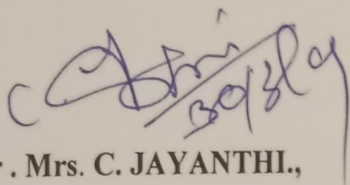
LECTURER IN CHEMISTRY

GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)

KUMBAKONAM-612 001

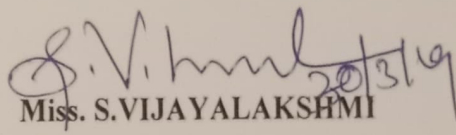
CERTIFICATE

This is certify that the dissertation work entitled "WASTE WATER TREATMENT USING PHOTOCATALYST COBALT FERRIATE OXIDE" submitted by Miss. G. NITHYA was done under my guidance in partial fulfillment of the requirements for the degree of MASTER OF SCIENCE during the academic year 2017-2019 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for the award of any degree or diploma.



Dr. Mrs. C. JAYANTHI.,

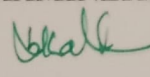
HEAD OF THE DEPARTMENT



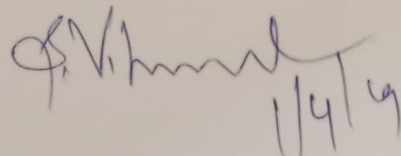
Miss. S.VIJAYALAKSHMI

PROJECT ADVISOR

EXAMINERS

1.  01-04-2019

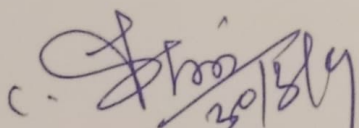
Dr.S.Kalyanasundharam, M.Sc., Ph.D.,  
Associate Professor & Head,  
PG & Research Dept. of Chemistry,  
Poompuh: College, Melaiyur-600 111

2.  1/4/19

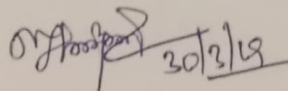
Mrs. J. KANNAGI., M.Sc., M.Phil., B.Ed.,  
LECTURER IN CHEMISTRY,  
GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS),  
KUMBAKONAM-621 001.

### CERTIFICATE

This is to certify that the project work entitled “ **EXTRACTION OF SILVER FROM WASTE X-RAY FILMS USING COCONUT SHELL AQUEOUS EXTRACT**” Project work submitted by **MISS.M. NIVETHA** was done under my guidance in partial fulfillments of the requirements for the award of **MASTER OF SCIENCE** in **CHEMISTRY** to Government College for Women (Autonomous), kumbakonam affiliated to Bharathidasan University, Thiruchirappalli during the academic year 2018-2019. In this project work has not previously formed in the basis for the award of any Degree. I certify that this is the original work of the candidate.

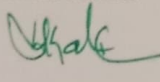
  
30/3/19

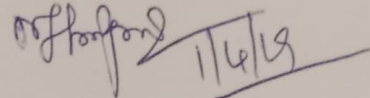
Dr. Mrs. C.JAYANTHI., M.Sc., M.Phil., Ph.D.,  
Head of the department of chemistry

  
30/3/19

Mrs. J. KANNAGI M.Sc., M.Phil., B.Ed.,  
Project Advisor

### EXAMINERS

1.  01. 04. 2019.

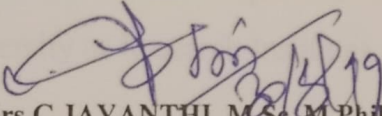
2.   
11/4/19

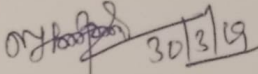
Dr.S Kalyanasundharam, M.Sc, M.Phil., Ph.D.  
Associate Professor & Head,  
PG & Research Dept. of Chemistry,  
Poompuh College, Melaiyur-607 001

Mrs. J. KANNAGI, M.Sc., M.Phil., B.Ed.,  
LECTURER IN CHEMISTRY,  
GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS),  
KUMBAKONAM-621 001.

### CERTIFICATE

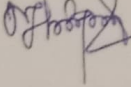
This is to certify that the project work entitled “ EXTRACTION OF SILVER FROM WASTE X-RAY FILMS USING UNRIPE PLANTAIN PEEL ASH SOLUTION” Project work submitted by MISS. R. PAVITHRA was done under my guidance in partial fulfillments of the requirements for the award of MASTER OF SCIENCE in CHEMISTRY to Government College for Women (Autonomous), Kumbakonam affiliated to Bharathidasan University, Thiruchirappalli during the academic year 2018-2019. In this project work has not previously formed in the basis for the award of any Degree. I certify that this is the original work of the candidate.

  
Dr. Mrs. C. JAYANTHI, M.Sc., M.Phil., Ph.D.,  
Head of the department

  
Mrs. J. KANNAGI, M.Sc., M.Phil., B.Ed.  
Project Advisor

### EXAMINERS

1.  01.04.2019.

2.  11/4/19

Dr. S. Kalyanasundharam, M.Sc., M.Phil., Ph.D.  
Associate Professor & Head,  
PG & Research Dept. of Chemistry,  
Poompuh College, Melaiyur-600 001



Mrs.VIMALA M.Sc., M.Phil., B.Ed., PGDCA., Ph.D.,

Lecturer in Chemistry

Department of Chemistry,

Government College for women (Autonomous),

Kumbakonam-612 001.

### CERTIFICATE

This is to certify that the project work entitled

**“ANTI-MICROBIAL ACTIVITY OF ETHANOLIC FLOWER EXTRACT**

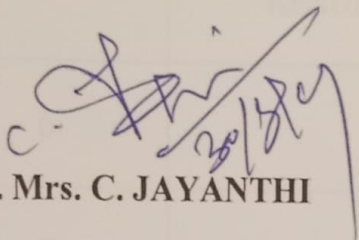
**FROM ECLIPTA PROSTRATA AGAINST A HUMAN PATHOGENIC**

**BACTERIA”** Submitted by **Miss. P. RAMYA** was done under my guidance in

partial fulfillment to the requirement for the degree of **MASTER OF**

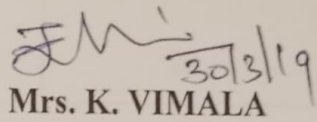
**SCIENCE**, during the academic year 2018-2019 in the faculty of chemistry is

the original work of the candidate.



**Dr. Mrs. C. JAYANTHI**

(Head of the Department)

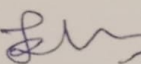


**Mrs. K. VIMALA**

(Project Advisor)

### EXAMINERS

1.  01.04.2019

2.  11/4/19

Dr.S Kalyanasundharam, M.Sc., M.Phil., Ph.D.  
Associate Professor & Head,  
PG & Research Dept. of Chemistry,  
Poompuh: College, Melaiyur-608 101

Dr. S. JASMINE MARY, M.Sc., M.Phil., Ph.D.,

LECTURER IN CHEMISTRY

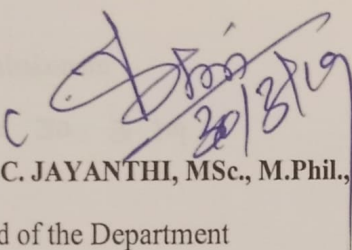
GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)

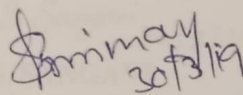
KUMBAKONAM-612 001

APRIL - 2019


## CERTIFICATE

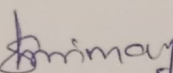
This is to certify that the thesis entitled “ **STUDIES ON THE EFFECT OF PUNICA GRANATUM ON GERMINATION AND PLANT GROWTH OF VIGNA RADLATA (L)** ” is a bonofide record of the research work Carried out by **S. SANGAVI** under my guidance and supervision and that the thesis has not previously formed the basis for the award of any Degree, Diploma, Fellowship or any other similar title to the candidate. It is also certified that the work embodied in this thesis was carried out entirely by **S. SANGAVI**.

  
Dr. C. JAYANTHI, MSc., M.Phil., Ph.D.,  
Head of the Department

  
Dr. S. JASMINE MARY,  
Project Advisor

### EXAMINERS:

1)  01.04.2019.

2)  1.4.19.

Dr. S. Kalyanasundharam, M.Sc., M.Phil., Ph.D.,  
Associate Professor & Head,  
PG & Research Dept. of Chemistry,  
Poornima College, Melaiyur-608 107

Mrs. P. SRIMATHI M.Sc., M.Phil., B.Ed., Ph.D.,

(Lecturer in Chemistry )

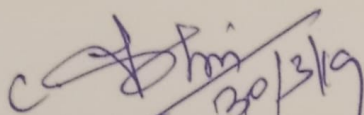
Government College for Women (Autonomous).

Department of chemistry,

Kumbakonam-612 001

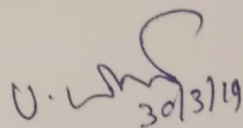
### CERTIFICATE

This is to certify that the project work entitled "PHOTO CATALYTIC DEGRADATION OF RHODAMINE B DYE IN AQUEOUS SOLUTION UNDER SUNLIGHT USING SYNTHESIZED CaO NANOPARTICLES FROM WASTE CHICKEN EGG SHELLS" Submitted by K. SANTHANALAKSHMI was done under my guidance in partial fulfilment of the requirements for the degree of MASTER OF SCIENCE, during the academic year 2018-2019 in the faculty of Chemistry is the original work of the candidate.

  
30/3/19

Dr. C. JAYANTHI., MSc., M.Phil., Ph.D.,

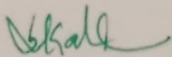
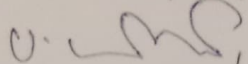
Head & Assistant Professor of Chemistry

  
30/3/19

Mrs. P. SRIMATHI

(Project Advisor)

### EXAMINERS

- 1)  01.04.2019
- 2)  1/4/19

Dr. S. Kalyanasundharam, M.Sc., M.Phil., Ph.D.  
Associate Professor & Head,  
PG & Research Dept. of Chemistry  
Poompuh College, Melaiyur-609 402

Mrs.K. PUNITHA VALLI M.Sc., M.Phil.,

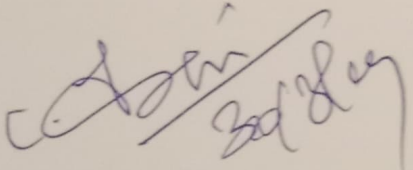
LECTURER IN CHEMISTRY

GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)

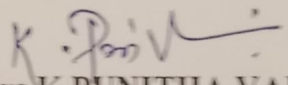
KUMBAKONAM - 612001.

CERTIFICATE

This is to certify that the dissertation work entitled "REMOVAL OF Pb(II) IONS FROM AQUEOUS SOLUTION USING HIBISCUS ROSASINENSIS submitted by Miss. S.SARANGA DHARANI was done under my guidance in partial fulfillment of the requirements for the degree of MASTER OF SCIENCE during the academic year 2016-2017 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for the award of any degree or diploma.

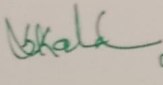


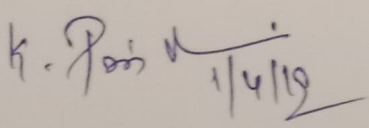
Dr. C.JAYANTHI.,  
M.Sc., M.Phil., Ph.D.,  
HEAD OF THE DEPARTMENT



Mrs.K.PUNITHA VALLI  
(PROJECT ADVISOR)

EXAMINERS

1.  01.04.2019

2.  1/4/19

Dr.S.Kalyanasundharam  
Associate Professor & Head,  
PG & Research Dept. of Chemistry,  
Poompuh College, Melavur-620



Mrs.VIMALA M.Sc.,M.Phil.,B.Ed.,PGDCA.,Ph.D.,

(Lecturer in chemistry),

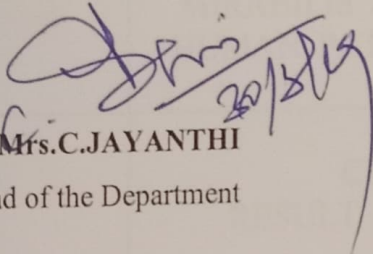
Government college for women (Autonomous),

Department of Chemistry,

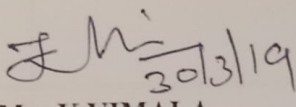
Kumbakonam-612 001.

## CERTIFICATE

This is to certify that the project work entitled "ANTI-MICROBIAL ACTIVITY OF MIRABILIS JALAPA AGAINST A HUMAN PATHOGENIC BACTERIA" Submitted by Miss.R.SHARMILA was done under my guidance in partial fulfillment, to the requirement for the degree of MASTER OF SCIENCE, during the academic year 2018-2019 in the faculty of chemistry is the original work of the candidate.

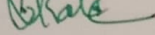
  
Dr. Mrs. C. JAYANTHI

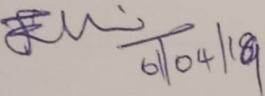
Head of the Department

  
Mrs. K. VIMALA

Project Advisor

### EXAMINERS

1.  01. 04. 2019

2.  01/04/19

Dr. S. Kalyanasundharam, M.Sc., M.Phil., Ph.D.  
Associate Professor & Head,  
PG & Research Dept. of Chemistry,  
Poompuh College, Melaiyur-606 002

Mrs.K. PUNITHAVALLI M.Sc., M.Phil.,

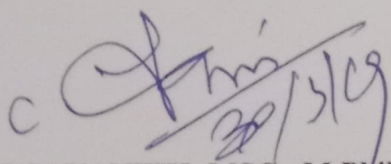
LECTURER IN CHEMISTRY

GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)

KUMBAKONAM – 612001.

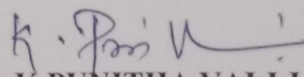
### CERTIFICATE

This is to certify that the dissertation work entitled “REMOVAL OF NI(II) IONS FROM AQUEOUS SOLUTION USING CARDIOSERPIMUM HALICACABUM submitted by Selvi.G. SINDHUJA was done under my guidance in partial fulfillment of the requirements for the degree of MASTER OF SCIENCE during the academic year 2017-2019 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for the award of any degree or diploma.

  
20/5/19

Dr. C.JAYANTHI.,M.Sc., M.Phil., Ph.D.

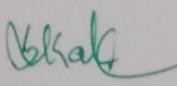
(HEAD OF THE DEPARTMENT)

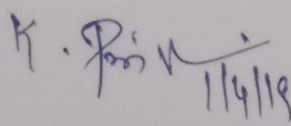


Mrs.K.PUNITHA VALLI

(PROJECT ADVISOR)

### EXAMINERS

1.  01.04.2019

2.  1/4/19

Dr.S.Kalyanasundharam, M.Sc., M.Phil., Ph.D.  
Associate Professor & Head,  
PG & Research Dept. of Chemistry,  
Poompuh College, Melaiyur-605 005

Miss. S. VIJAYALAKSHMI, M.Sc., M.Phil., Ph.D

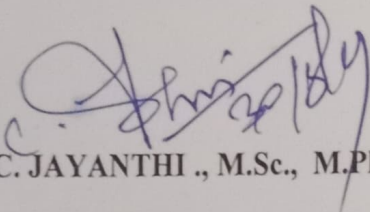
LECTURER IN CHEMISTRY

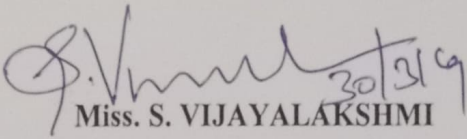
GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)

KUMBAKONAM-612 001

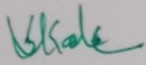
CERTIFICATE

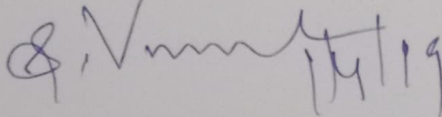
This is certify that the dissertation work entitled "WASTE WATER TREATMENT USING PHOTOCATALYST GRAPHENE OXIDE" submitted by Miss. S. SURUTHI was done under my guidance in partial fulfillment of the requirements for the degree of MASTER OF SCIENCE during the academic year 2017-2019 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for the award of any degree or diploma.

  
Dr. C. JAYANTHI ., M.Sc., M.Phil., Ph.D.,  
HEAD OF THE DEPARTMENT

  
Miss. S. VIJAYALAKSHMI  
PROJECT ADVISOR

EXAMINERS

1.  01.04.2019

2. 

Dr.S.Kalyanasundharam, M.Sc., M.Phil., Ph.D.  
Associate Professor & Head,  
PG & Research Dept. of Chemistry,  
Poompuh College, Melaiyur-605 005



**Dr. C. JAYANTHI, M.Sc., M.Phil., Ph.D., MBA.,**  
Head of the Department of Chemistry  
Government College For Women (Autonomus),  
Kumbakonam – 612 001.

---

Date: 25.5.2020

### CERTIFICATE

This is to certify that the dissertation work entitled "A STUDY ON SYNTHESIS OF BENZOCAINE AND ITS BIOLOGICAL ACTIVITY" submitted by B. DIVYA, was done under my guidance in partial fulfilment of the requirements for the degree of MASTER OF SCIENCE during the academic year 2018–2020 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for award of any degree or diploma.

*C. Jayanthi*  
25.5.2020

Dr. C. JAYANTHI., M.Sc., M.Phil., Ph.D..  
(PROJECT ADVISOR AND HEAD OF THE DEPARTMENT)

### EXAMINERS

1. *P. Ann*  
25.5.2020

2. *V. Ann*





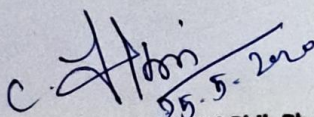



Mrs. V. ANU, M.Sc., M.Phil., Ph.D.,  
Lecturer in Chemistry,  
Government College For Women (Autonomous),  
Kumbakonam - 612 001.

Date: 25.5.2020

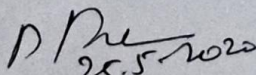
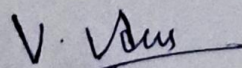
### CERTIFICATE

This is to certify that the dissertation work entitled "PHYSICO-CHEMICAL PARAMETERS OF CORPORATION WATER AND AQUA PACKAGED WATER FROM KORADACHERI" submitted by C. SAGAYAPRISLIN, was done under my guidance in partial fulfilment of the requirements for the degree of MASTER OF SCIENCE during the academic year 2019-2020 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for award of any degree or diploma.

  
Dr. C. JAYANTHI, M.Sc., M.Phil., Ph.D  
Head & Assistant Professor of Chemistry

  
Mrs. V. ANU, M.Sc., M.Phil., Ph.D  
(Project Advisor)

### EXAMINERS

-   
25.5.2020
- 



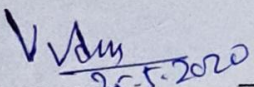
**Mrs. V. ANU, M.Sc., M.Phil., Ph.D.,**  
Lecturer, Department of Chemistry  
Government College For Women (Autonomous),  
Kumbakonam – 612 001.

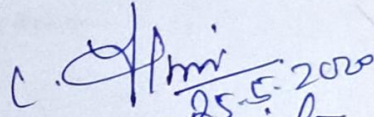
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Date: 25.5.2020

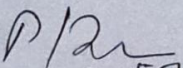
### CERTIFICATE

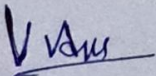
This is to certify that the dissertation work entitled "ANTICORROSIVE AND ANTIOXIDANT ACTIVITIES OF *TERMINALIA CHEBULA* SEED" submitted by **R. RANJITHA**, was done under my guidance in partial fulfilment of the requirements for the degree of **MASTER OF SCIENCE** during the academic year 2018–2020 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for award of any degree or diploma.

  
25.5.2020  
Dr. V. ANU, M.Sc., M.Phil., Ph.D.  
(PROJECT ADVISOR)

  
25.5.2020  
HOD of Chemistry

### EXAMINERS

1.   
25.5.2020

2. 



**Mrs. P. SRIMATHI, M.Sc., M.Phil., B.Ed., Ph.D.,**

(Lecturer in Chemistry)

Government College For Women (Autonomous),

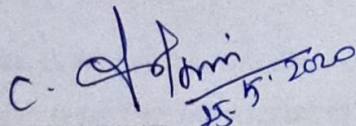
Department in chemistry,

Kumbakonam – 612 001.

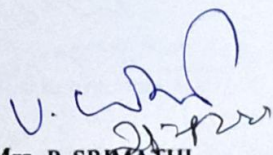
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**CERTIFICATE**

This is to certify that the dissertation work entitled "**BIO SYNTHESIS, CHARACTERIZATION OF ZINC OXIDE NANOPARTICLES USING LEAF EXTRACT OF *ALOE VERA*, AND ITS EVALUATION ON ANTIBACTERIAL ACTIVITY**" submitted by **R. KEERTHANA**, was done under my guidance in partial fulfilment of the requirements for the degree of **MASTER OF SCIENCE** during the academic year 2018–2020 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for award of any degree or diploma.

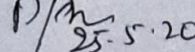
  
Dr. C. JAYANTHI., M.Sc., M.Phil., Ph.D.

(HEAD OF THE DEPARTMENT)

  
Mrs. P. SRIMATHI

(PROJECT ADVISOR)

**EXAMINERS**

1)   
25.5.20

2) 



Mrs. P. SRIMATHI, M.Sc., B.Ed., M.Phil., Ph.D.,

Lecturer in Chemistry

Government College for Women (Autonomous),

Kumbakonam – 612 001.

---

**CERTIFICAT**

This is certify that the dissertation work entitled "GREEN SYNTHESIS, CHARACTERIZATION AND ANTIBACTERIAL ACTIVITY OF Cu NANOPARTICLES AGAINST GRAM POSTIVE, GRAM NEGATIVE BACTERIA USING ABUTILON INDICUM LEAF EXTRACT" submitted by C. SABITHA, was done under my guidance in partial fulfilment of the requirements for the degree of MASTER OF SCINCE during the academic year 2018-2020 in the faculty of chemistry the original work of the candidate. The work is not submitted to another <sup>institution</sup> for award of any degree or diploma.

  
Dr. C. JAYANTHI, M.Sc., M.Phil., Ph.D.,

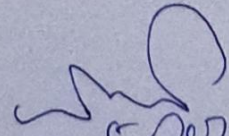
**HEAD OF THE DEPARTMENT**

  
Mrs. P. SRIMATHI, M.Sc., B.Ed., M.Phil., Ph.D.

**PROJECT ADVISOR**

**EXAMINERS**

1. P/2  
25-5-2020

2.   
25-5-2020

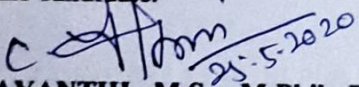



Mrs. A. ANITHA, M.Sc., M.Phil.,  
LECTURER IN CHEMISTRY,  
GOVERNMENT COLLEGE FOR WOMEN ( AUTONOMOUS),  
KUMBAKONAM – 612 001.

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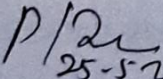
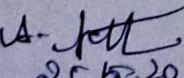
**CERTIFICATE**

This is to certify that the project work entitled “**PHYTOCHEMICAL SCREENING AND ANTIBACTERIAL ACTIVITY OF PHYLLANTHUS AMARUS**” submitted by **Selvi. R. MANJULA** was done under my guidance in partial fulfilment of the requirements for the degree of **MASTER OF SCIENCE** during the academic year 2019 – 2020 in the faculty of chemistry the original work of the candidate.

  
Dr. C. JAYANTHI., M.Sc., M.Phil., Ph.D.,  
(HEAD OF THE DEPARTMENT)

  
Mrs. A. ANITHA,  
(PROJECT ADVISOR)

**EXAMINERS**

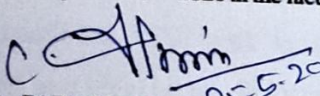
1.   
25-5-2020
2.   
25.5.20




**Mrs. A. ANITHA., M.Sc., M.Phil.,**  
**LECTURER IN CHEMISTRY**  
**GOVERNMENT COLLEGE FOR WOMEN ( AUTONOMUS )**  
**KUMBAKONAM – 612 001**

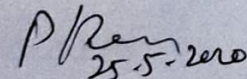
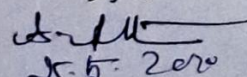
**CERTIFICATE**

This is to certify that the project work entitled "EVALUATION OF PHYTOCHEMICAL SCREENING AND ANTIMICROBIAL ACTIVITIES OF SINAPIS ALBA SEEDS AGAINST SELECTED MICROORGANISMS" submitted by H. MONALISA was done under my guidance in partial fulfilment of the requirements for the degree of MASTER OF SCIENCE during the academic year 2019 – 2020 in the faculty of chemistry the original work of the candidate.

  
25.5.2020  
**Dr. C. JAYANTHI., M.Sc., M.Phil., Ph.D.,**  
**(HEAD OF THE DEPARTMENT)**

  
**Mrs. A. ANITHA**  
**(PROJECT ADVISOR)**

**EXAMINERS**

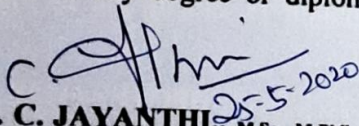
1.   
25.5.2020
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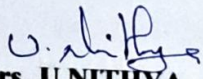


**Mrs. U. NITHYA., M.Sc., M.Phil.,**  
Lecturer In Chemistry  
Government College For Women ( Autonomous)  
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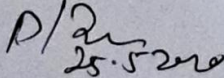
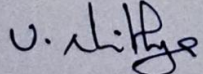
### CERTIFICATE

This is to certify that the dissertation work entitled "EVALUATION OF ANTIBACTERIAL ACTIVITY OF GREEN SYNTHESIZED Cd NANOPARTICLES USING *ACALYPHA INDICA*" submitted by R.SUSHMITHA was done under my guidance in partial fulfilment of the requirements for the degree of MASTER OF SCIENCE during the academic year 2018 - 2020 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for the award of any degree or diploma.

  
25.5.2020  
**Dr. C. JAYANTHI., M.Sc., M.Phil., Ph.D.,**  
**HEAD OF THE DEPARTMENT**

  
**Mrs. U. NITHYA., M.Sc., M.Phil.,**  
**PROJECT ADVISOR**

### EXAMINERS

1.   
25.5.2020
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**Dr.Mrs. G.SRIDEVI., M.Sc., M.Phil., Ph.D.,**  
**LECTURER IN CHEMISTRY,**  
**GOVERNMENT COLLEGE FOR WOMEN ( AUTONOMOUS ),**  
**KUMBAKONAM – 612 001.**

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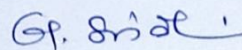
**CERTIFICATE**

This is to certify that the project work entitle “**IN VITRO ANTIBACTERIAL ACTIVITY OF LEAF EXTRACTS OF AERVA LANATA**” submitted by **Selvi. S. ISWARYA** was done under my guidance in partial fulfilment of the requirements for the degree of **MASTER OF SCIENCE** during the academic year 2019 – 2020 in the faculty of chemistry the original work of the candidate.

  
25.5.2020

**Dr. C. JAYANTHI., M.Sc., M.Phil., Ph.D.,**

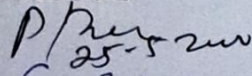
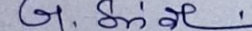
**(HEAD OF THE DEPARTMENT)**



**Dr.Mrs.G.SRIDEVI,**

**(PROJECADVISOR)**

**EXAMINERS**

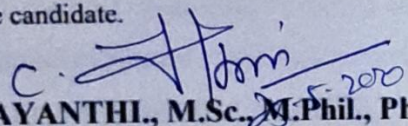
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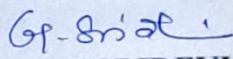
**Dr.Mrs. G.SRIDEVI., M.Sc., M.Phil., Ph.D.,**  
**LECTURER IN CHEMISTRY,**  
**GOVERNMENT COLLEGE FOR WOMEN ( AUTONOMOUS ),**  
**KUMBAKONAM – 612 001.**

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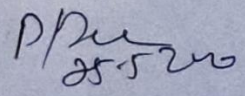
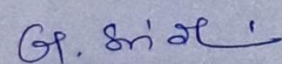
### **CERTIFICATE**

This is to certify that the project work entitled “**PHYTOCHEMICAL SCREENING AND PHARMACOLOGICAL ACTIVITY OF ECLIPTA PROSTRATA LEAVES**” submitted by **Selvi. A.AARTHINI** was done under my guidance in partial fulfilment of the requirements for the degree of **MASTER OF SCIENCE** during the academic year 2019 – 2020 in the faculty of chemistry the original work of the candidate.

  
**Dr. C. JAYANTHI., M.Sc., M.Phil., Ph.D.,**  
**(HEAD OF THE DEPARTMENT)**

  
**Dr. Mrs . G.SRIDEVI,**  
**(PROJECT ADVISOR)**

### **EXAMINERS**

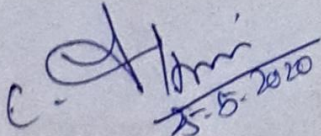
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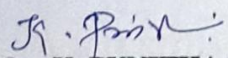


**Mrs. K. PUNITHA VALLI ., M.Sc., M.Phil., Ph.D.,**  
**LECTURER IN CHEMISTRY**  
**GOVERNMENT COLLEGE FOR WOMEN (AUTONOMUS)**  
**KUMBAKONAM – 612 001.**

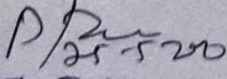
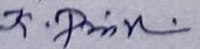
**CERTIFICATE**

This is to certify that the dissertation work entitled “**REMOVAL OF Pb(II) IONS FROM AQUEOUS SOLUTION USING CATHRANTHUS ROSEUS**” submitted by **Selvi. S. MEENA** was done under my guidance in partial fulfilment of the requirements for the degree of **MASTER OF SCIENCE** during the academic year 2018 – 2020 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for the award of any degree or diploma.

  
**Dr. C. JAYANTHI,**  
**M.Sc., M.Phil., Ph.D.,**  
**(HEAD OF THE DEPARTMENT)**

  
**Mrs. K. PUNITHA VALLI.,**  
**M.Sc., M.Phil., Ph.D.,**  
**(PROJECT ADVISOR)**

**EXAMINERS**

1.   
25-5-20
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**Mr .K. PUNITHA VALLI, M.Sc., M.Phil., Ph .D**

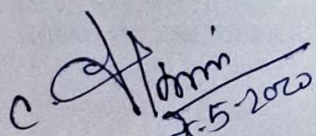
**LECTURER IN CHEMISTRY**

**GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)**

**KUMBAKONAM**

**CERTIFICATE**

This is to certify that the dissertation work entitled "REMOVAL OF Cd(II) IONS FROM AQUEOUS SOLUTION USING VITEX NEGUNDO" submitted by Miss. S.MEENA was done under my guidance in partial fulfilment of the requirements for the degree of MASTER OF SCIENCE during the academic year 2018 – 2020 in the faculty of chemistry the original work of the candidate . The work is not submitted to another institution for the award of any degree or diploma.

  
Dr. C. JAYANTHI,

M.Sc., M.Phil., Ph.D.,

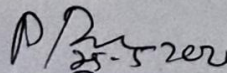
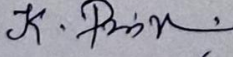
HEAD OF THE DEPARTMENT

  
Mrs. K.PUNITHA VALLI,

M.Sc., M.Phil., Ph.D.,

(PROJECT ADVISOR)

**EXAMINOR**

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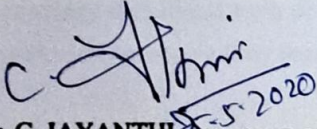
**Dr. S. JASMINE MARY, M.Sc., M.Phil., Ph.D.,**  
Lecturer in Chemistry,  
Government College For Women (Autonomous),  
Kumbakonam – 612 001.

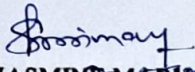
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Date: 25.5.2020

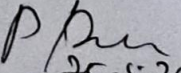
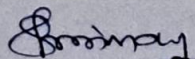
### CERTIFICATE

This is to certify that the dissertation work entitled “**PREPARATION, CHARACTERIZATION AND ANTI-MICROBIAL ACTIVITY OF LECITHIN ORGANOGEL**” submitted by **S. S. ABIRAMI**, was done under my guidance in partial fulfilment of the requirements for the degree of **MASTER OF SCIENCE** during the academic year 2018–2020 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for award of any degree or diploma.

  
Dr. C. JAYANTHI, M.Sc., M.Phil., Ph.D.,  
(HEAD OF THE DEPARTMENT)

  
Dr. S. JASMINE MARY, M.Sc., M.Phil., Ph.D.,  
(PROJECT ADVISOR)

### EXAMINERS

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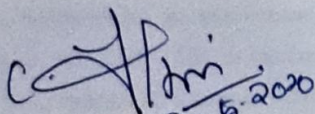
**Dr. S. JASMINE MARY, M.Sc., M.Phil., Ph.D.,**  
Lecturer in Chemistry,  
Government College For Women (Autonomus),  
Kumbakonam – 612 001.

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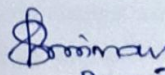
Date: 25.5.2020

### CERTIFICATE

This is to certify that the dissertation work entitled "ANALYSIS OF PHYSICO-CHEMICAL CHARACTERS OF BORE WELL AND CORPORATION WATER FROM KUMBAKONAM" submitted by S. RAMYA was done under my guidance in partial fulfilment of the requirements for the degree of **MASTER OF SCIENCE** during the academic year 2018–2020 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for award of any degree or diploma.



Dr. C. JAYANTHI, M.Sc., M.Phil., Ph.D.  
(HEAD OF THE DEPARTMENT)



Dr. S. JASMINE MARY, M.Sc., M.Phil., Ph.D.  
(PROJECT ADVISOR)

### EXAMINERS

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Dr. S. Jasmine Mary

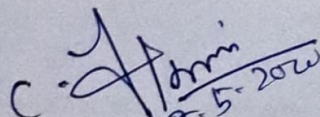


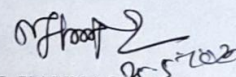
Mrs. J.KANNAGI., M.sc., M.Phil., B.Ed.,  
Lecturer in Chemistry  
Government College For Women (Autonomous),  
Department of Chemistry  
Kumbakonam – 612 001.

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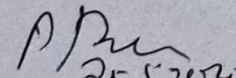
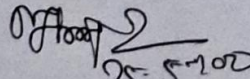
### CERTIFICATE

This is to certify that the dissertation work entitled "GREEN SYNTHESIS, CHARACTERISATION AND ANTIBACTERIAL ACTIVITY OF Zr NANOPARTICLES AGAINST GRAM POSITIVE, GRAM NEGATIVE BACTERIA USING *ACALYPHA INDICA* LEAF EXTRACT" submitted by R.LAKSHMI, was done under my guidance in partial fulfilment of the requirements for the degree of MASTER OF SCIENCE during the academic year 2018–2020 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for award of any degree or diploma.

  
Dr. C. JAYANTHI., M.Sc., M.Phil., Ph.D.,  
(HEAD OF THE DEPARTMENT)

  
Mrs. J. KANNAGI., M.Sc., M.Phil., B.Ed.,  
PROJECT ADVISOR

### EXAMINERS

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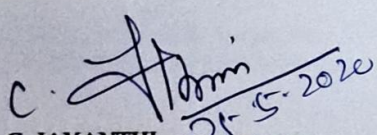


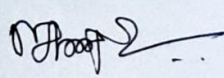
**Mrs. J.KANNAGI., M.Sc., M.Phil., B.Ed.,**  
Lecturer in Chemistry  
Government College For Women (Autonomous),  
Kumbakonam – 612 001.

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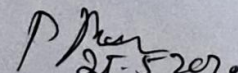
### CERTIFICATE

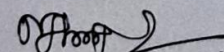
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Dr. C. JAYANTHI., M.Sc., M.Phil., Ph.D.,  
(HEAD OF THE DEPARTMENT)

  
Mrs. J. KANNAGI., M.Sc., M.Phil., B.Ed.,  
PROJECT ADVISOR

### EXAMINERS

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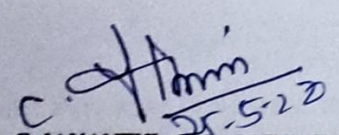
**P. VASANTHI, M.Sc., M.Tech., M.Phil.,**  
Lecturer in Chemistry,  
Government College For Women (Autonomous),  
Kumbakonam – 612 001.

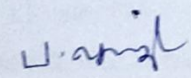
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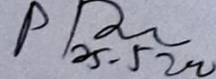
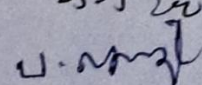
### CERTIFICATE

This is to certify that the dissertation work entitled "SYNTHESIS AND CHARACTERISATION OF SILVER NANOPARTICLE USING *Centella asiatica* AND EVALUATION OF ANTIBACTERIAL AND ANTI-INFLAMMATORY ACTIVITY" submitted by K. NESAVANI, was done under my guidance in partial fulfilment of the requirements for the degree of MASTER OF SCIENCE during the academic year 2018-2020 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for award of any degree or diploma.

  
Dr. C. JAYANTHI, M.Sc., M.Phil., Ph.D.,  
(HEAD OF THE DEPARTMENT)

  
P. VASANTHI, M.Sc., M.Tech., M.Phil.,  
(PROJECT ADVISOR)

### EXAMINERS

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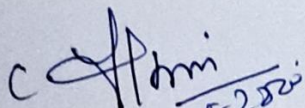
**P. VASANTHI, M.Sc., M.Tech., M.Phil.,**  
Lecturer in Chemistry,  
Government College For Women (Autonomous),  
Kumbakonam – 612 001.

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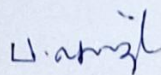
Date: 25.5.2020

### CERTIFICATE

This is to certify that the dissertation work entitled "A COMPARATIVE STUDY ON PHYSICO-CHEMICAL PARAMETERS OF AQUA AND CORPORATION WATER FROM THIRUVAOUR DISTRICT" submitted by P. KAVI PRIYA was done under my guidance in partial fulfilment of the requirements for the degree of MASTER OF SCIENCE during the academic year 2018–2020 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for award of any degree or diploma.

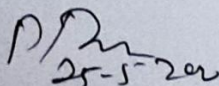
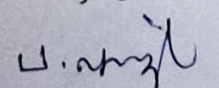


Dr. C. JAYANTHI, M.Sc., M.Phil., Ph.D.,  
(HEAD OF THE DEPARTMENT)



P. VASANTHI, M.Sc., M.Tech., M.Phil.,  
(PROJECT ADVISOR)

### EXAMINERS

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25-5-2020
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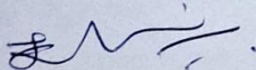
**Dr. K. VIMALA., M.Sc., M.Phil., B.Ed., PGDCA, Ph.D.,**  
Assistant Professor, Department of Chemistry  
Government College For Women (Autonomus),  
Kumbakonam – 612 001.

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Date: 25.5.2020

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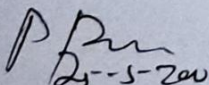
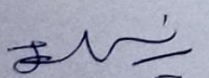
This is to certify that the dissertation work entitled “**PREPARATION, CHARACTERIZATION AND ANTI- HEMOCOMPATIBILITY ACTIVITY OF TWEEN 80 ORGANOGEL**” submitted by **R. SARANYA**, was done under my guidance in partial fulfilment of the requirements for the degree of **MASTER OF SCIENCE** during the academic year 2018–2020 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for award of any degree or diploma.



Dr. K. VIMALA., M.Sc., M.Phil., B.Ed., PGDCA, Ph.D.,  
(PROJECT ADVISOR)

C. Anni  
25.5.2020  
HOD of Chemistry

### EXAMINERS

1.   
25-5-2020
2. 




**Mrs. K. VIMALA., M.Sc., M.Phil., PGDCA, Ph.D.,**  
Lecturer, Department of Chemistry  
Government College For Women (Autonomous),  
Kumbakonam - 612 001.

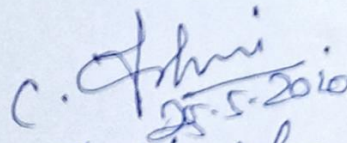
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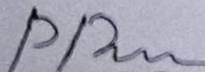
### CERTIFICATE

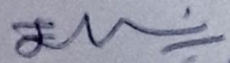
This is to certify that the dissertation work entitled "MICROWAVE MEDIATED SYNTHESIS OF PHENYTOIN AND EVALUATION OF ANTIMICROBIAL AND ANTIARTHRITIC ACITIVITIES" submitted by N. BAMA, was done under my guidance in partial fulfilment of the requirements for the degree of MASTER OF SCIENCE during the academic year 2018-2020 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for award of any degree or diploma.

  
**Mrs. K. VIMALA., M.Sc., M.Phil., PGDCA, Ph.D.,**  
(PROJECT ADVISOR)

  
25.5.2020  
HOD of Chemistry

### EXAMINERS

1.   
25.5.2020

2. 

**Dr. C. JAYANTHI., M.Sc., M.Phil., Ph.D., MBA.,**  
Head of the Department of Chemistry  
Government College For Women (Autonomus),  
Kumbakonam – 612 001.

---

Date: 25.5.2020

### CERTIFICATE

This is to certify that the dissertation work entitled "A STUDY ON SYNTHESIS OF BENZOCAINE AND ITS BIOLOGICAL ACTIVITY" submitted by **B. DIVYA**, was done under my guidance in partial fulfilment of the requirements for the degree of **MASTER OF SCIENCE** during the academic year 2018–2020 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for award of any degree or diploma.

*C. Jayanthi*  
25.5.2020

**Dr. C. JAYANTHI., M.Sc., M.Phil., Ph.D.,**  
**(PROJECT ADVISOR AND HEAD OF THE DEPARTMENT)**

### EXAMINERS

1. *P. / M*  
25.5.2020

2. *V. Anna*



**Mrs. U. NITHYA., M.Sc., M.Phil.,**  
Lecturer In Chemistry  
Government College For Women ( Autonomous)  
Kumbakonam

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### CERTIFICATE

This is to certify that the dissertation work entitled “**RECOVERY OF MANGANESE OXIDE NANOPARTICLES FROM BATTERY AND EVALUATION OF ITS ANTIOXIDANT ACTIVITY**” submitted by M.AARTHI was done under my guidance in partial fulfilment of the requirements for the degree of **MASTER OF SCIENCE** during the academic year 2019 – 2021 in the faculty of chemistry the original work of the candidate .  
The work is not submitted to another institution for the award of any degree or diploma.

**Dr. C. JAYANTHI., M.Sc., M.Phil., Ph.D.,**

**HEAD OF THE DEPARTMENT**

**Mrs. U.NITHYA., M.Sc., M.Phil.,**

**PROJECT ADVISOR**

**EXAMINERS**

1.

2.

**Dr. P. FITO., M.Sc., Ph.D.,**  
Assistant Professor,  
Department of Chemistry,  
Govt. Arts College (Autonomous),  
Kumbakonam - 612 002, T.N. India.



**Mrs. P. SRIMATHI., M.Sc., M.Phil., B.Ed., Ph.D.,**

(Lecturer in chemistry)

Government College for Women (Autonomous),

Department in Chemistry

Kumbakonam – 612 001.

### **CERTIFICATE**

This is to certify that the project work entitled “**EVALUATION OF ANTIOXIDANT OF MAGNESIUM OXIDE NANOPARTICLES SYNTHESIZED USING MEDICINALLY IMPORTANT PLANT EXTRACT (POMELO FRUIT PEEL)**” submitted by Miss. A. ABINAYA, was done under my guidance in partial fulfilment of the requirements for the degree of MASTER OF SCIENCE during the academic year 2019 - 2021 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for award of any degree or diplamo.

**Dr. C. JAYANTHI., M.Sc., M.Phil., Ph.D.,**

**(HEAD OF THE DEPARTMENT),**

  
**Mrs. P. SRIMATHI,**

**(PROJECT ADVISOR)**

### **Examiners**

1. 

2.

**Dr. P. PITCHAI, M.Sc., Ph.D.,**  
Assistant Professor,  
Department of Chemistry,  
Govt. Arts College (Autonomous),  
Kumbakonam - 612 002, T.N., India.

**M.KIRUTHIGA, M.Sc., M.Phil., (Ph.D)**

(Lecturer in Chemistry)

Government College For Women (Autonomous),

Department of chemistry,

Kumbakonam – 612 001.

---

**CERTIFICATE**

This is to certify that the dissertation work entitled "**REMOVAL OF CONGO RED DYE FROM AQUEOUS SOLUTION USING ACID ACTIVATED CARBON PREPARED FROM THE AERIAL ROOT OF *FICUS BENGHALENSIS.L***" Submitted by **B.BHARATHI**, was done under my guidance in partial fulfillment of the requirements for the degree of **MASTER OF SCIENCE** during the academic year 2019-2021 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for award of any degree or diploma.

**Dr. C.JAYANTHI, M.Sc., M.Phil., Ph.D.,**  
**(HEAD OF THE DEPARTMENT)**

*M. Kiruthiga* 23.4.21  
**M. KIRUTHIGA.,**  
**(PROJECT ADVISOR)**

**EXAMINERS**

1. 

2.

**Dr. P. FITTAI, M.Sc., Ph.D.,**  
Assistant Professor,  
Department of Chemistry,  
Govt. Arts College,  
Kumbakonam - 612 001.

**Mrs. J.KANNAGI., M.Sc., M.Phil. B.Ed.,**

Lecturer in Chemistry

Government College for Women (Autonomous),

Kumbakonam - 612 001.

---

### **CERTIFICATE**

This is to certify that the dissertation work entitled “**ADSORPTION OF 2,4-D SODIUM SALT FROM AQUEOUS SOLUTION ONTO COCONUT HUSK ACTIVATED CARBON**” submitted by **R.DEVAKI**, was done under my guidance in partial fulfillment of the requirements for the degree of **MASTER OF SCIENCE** during the academic year 2019–2021 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for award of any degree or diploma.

**Dr.C.JAYANTHI.,M.Sc.,M.Phil.,Ph.D.,**

**Mrs.J.KANNAGI., M.Sc., M.Phil., B.Ed.,**

**HEAD OF THE DEPARTMENT**

**PROJECTADVISOR**

#### **EXAMINERS**

1.

2.

**Dr. P. PITCHAI, M.Sc., M.Phil., Ph.D.,**  
Assistant Professor,  
Department of  
Govt. Arts College (Autonomous),  
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**Dr. G. SRIDEVI, M.Sc., M.Phil., Ph.D.,**

Lecturer in chemistry,

Government College for Women (Autonomous),

Kumbakonam.

## CERTIFICATE

This is to certify that the project work entitled "**PHYTOCHEMICAL SCREENING AND ANTI-BACTERIAL ACTIVITY OF *CARICA PAPAYA***" submitted by **Miss. N. DHIVYA** was done under my guidance in partial fulfilment of the requirements for the degree of **MASTER OF SCIENCE** during the academic year 2019 - 2021 in the faculty of chemistry the original work of the candidate.

**Dr. C. JAYANTHI, M.Sc., M.Phil., Ph.D.,**

**(HEAD OF THE DEPARTMENT),**



**Dr. G. SRIDEVI,**

**(PROJECT ADVISOR)**

### Examiners

1.



2.

**Dr. P. PITCHAI, M.Sc., Ph.D.,**  
Assistant Professor,  
Department of Chemistry,  
Govt. Arts College (Autonomous),  
Kumbakonam - 612 002, T.N. India.

Mrs.K PUNITHA VALLI, M.Sc., M.Phil.,Ph.D

LECTURE IN CHEMISTRY

GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)

KUMBAKONAM-612 001

## CERTIFICATE

This is to certify that the dissertation work entitled "A STUDY OF SOIL ANALYSIS OF CULTIVATABLE LANDS FROM VARIOUS DISTRICTS" Submitted by **Miss. R.DURGARANI** Was done under my guidance in partial fulfillment of the requirement for the degree of **MASTER OF SCIENCE** during the academic year 2019-2021 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for the award of any degree or diploma.


Mrs. C. JAYANTHI., M.Sc., M.Phil.,Ph.D

HEAD OF THE DEPARTMENT

  
Mrs. K. PUNITHAVALLI M.Sc.,M.Phil.,Ph.D

PROJECT ADVISOR

EXAMINERS

1. 

2.

Dr. P. PITTAJI  
Assistant Professor,  
Department of Chemistry,  
Govt. Arts College (Autonomous),  
Kumbakonam, Tamil Nadu, India.

**Mrs. P.VASANTHI, M.Sc, M.Tech.,M.Phil.,**

Lecturer in Chemistry

Government College For Women (Autonomous),

Kumbakonam - 612 001.

---

**CERTIFICATE**

This is to certify that the dissertation work entitled "**RECOVERY OF ALUMINIUM OXIDES NANOPARTICLES FROM INDUSTRIAL WASTE JUICE CANS AND EVALUATION OF ITS ANTIBACTERIAL ACTIVITY AND ANTIOXIDANT ACTIVITY**" submitted by **K.JAYALAKSHMI**, was done under my guidance in partial fulfilment of the requirements for the degree of **MASTER OF SCIENCE** during the academic year 2020-2021 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for award of any degree or diploma.

Dr. C. JAYANTHI, M.Sc., M.Phil., Ph.D.,

**(HEAD OF THE DEPARTMENT)**

  
26/4/21

Mrs. P.VASANTHI, M.Sc., M.Tech., M.Phil

**PROJECT ADVISOR**

**EXAMINERS**

1. 

2.



**Dr. Mrs. C. JAYANTHI, M.Sc., M.Phil., Ph.D.,**  
HEAD OF THE DEPARTMENT,  
GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS),  
KUMBAKONAM - 612 001.

---

**CERTIFICATE**

This is to certify that the project work entitled "**PHYTOCHEMICAL INVESTIGATION OF ACALYPHA FRUTICOSA**" submitted by **G. KAMALI** was done under my guidance in partial fulfilment of requirements for the degree of **MASTER OF SCIENCE**, during the academic year 2020-2021 in the faculty of Chemistry is the original work of the candidate.

**Dr. Mrs. C. JAYANTHI,**  
Head of the Department of Chemistry

**Dr. Mrs. C. JAYANTHI,**  
(Project Advisor)

Examiners

1.



2.

**Dr. P. PITCHAI, M.Sc., Ph.D.,**  
Assistant Professor,  
Department of Chemistry,  
Govt. College for Women (Autonomous),  
Kumbakonam - 612 002, T.N., India.

Miss. S.VIJAYALAKSHMI, M.Sc., M.Phil., Ph.D

LECTURER IN CHEMISTRY

GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)

KUMBAKONAM-612 001.

---

**CERTIFICATE**

This is certify that the disstertation work entitled "DYE AND WASTE WATER TREATMENT USING PHOTOCATALYST ZINC OXIDE" Submitted by Miss. M. KIRIJA was done under my guidance in partial fulfillment of the requirements for the degree of MASTER OF SCIENCE during the academic year 2019-2021 in the faculty of chemistry the original work of the candidate. This work is not submitted to another institution for the award of any degree of diploma.

Dr.Mrs.C. JAYANTHI,

HEAD OF THE DEPARTMENT

  
Miss.S.VIJAYALAKSHMI

PROJECT ADVISOR

EXAMINERS



K. KIRUTHIKA,

II M.Sc., CHEMISTRY,

GOVERNMENT COLLEGE FOR WOMEN (AUTO),

KUMBAKONAM.

DECLARATION

I hereby declare that the work presented in this thesis entitled "PHYTOCHEMICAL SCREENING AND PHARMACOLOGICAL ACTIVITY OF *PSIDIUMGU AJAVA*" has been original carried out by me under the guidance and supervision of Dr. G. SRIDEVI, M.Sc., M.Phil., Ph.D., Lecturer in chemistry, Government college for women (Autonomous), Kumbakonam. This work has been submitted either in whole or in part for any other degree or diploma at any other Universities or Research Institute.

PLACE: KUMBAKONAM

*K. Kiruthika*  
K. KIRUTHIKA

DATE: 23-04-2021



Mrs. S.VIJAYALAKSHMI, M.Sc., M. Phil., (Ph.D),

Lecturer in Chemistry

Department of Chemistry

Government college for women (Autonomous)

Kumbakonam

---


CERTIFICATE

This is to certify that the project report entitled "DYE DEGRADATION AND WASTE WATER TREATMENT USING PHOTOCATALYST COPPER OXIDE" is a bonafiderecord works done by S.MAHESWARI, Reg.No P19CH011 submitted to Government College for Women(A), Kumbakonam, Affiliated to Bharathidasan University, Thiruchirapalli in partial fulfillment of the requirement for the award of the degree of master of science in chemistry during the year 2020-2021 in the department of chemistry under my guidance and supervision and the project report has previously formed the basis for the award of any degree diploma, fellowship or any other similar titles. I further work on the part of the candidate.

  
Signature of the Guide

Head of the Department

Examiners

1. 

2.

Mrs. P. VASANTHI., M.Sc., M.Tech., M.Phil.,

Lecturer In Chemistry

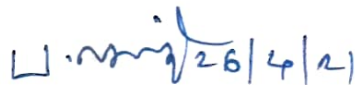
Government College For Women (Autonomous)

Kumbakonam.

---

### CERTIFICATE

This is to certify that the dissertation work entitled “ **RECOVERY OF ZINC OXIDE (ZnO) NANOPARTICLES FROM WASTE BATTERY AND EVALUATION OF ITS ANTIBACTERIAL ACTIVITY**” Submitted by **R. NEEMA** was done under my guidance in partial fulfillment of the requirement for the degree of **MASTER OF SCIENCE** during the academic year 2019-2021 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for the award of any degree or diploma

 26/4/21

**Dr. C. JAYANTHI., M.Sc., M. Phil., Ph.D.,**

**Mrs. P. VASANTHI.,**


**HEAD OF THE DEPARTMENT**

**PROJECT ADVISOR**

### EXAMINERS

1. 

2.

  
Dr. R. P. T. C.  
Assistant Professor,  
Department of Chemistry,  
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**Mrs S.VANI, M.Sc., M.Phil., B.Ed., (Ph.D)**

(Lecturer in Chemistry)

Government College For Women (Autonomous),

Department of chemistry,

Kumbakonam – 612 001.

---

### CERTIFICATE

This is to certify that the dissertation work entitled “**ADSORPTIVE BEHAVIOUR OF DIVALENT NICKEL ION ONTO ACID ACTIVATED CARBON PREPARED FROM *DELONIX REGIA PODS***” Submitted by **K.NIVETHA**, was done under my guidance in partial fulfillment of the requirements for the degree of **MASTER OF SCIENCE** during the academic year 2019-2021 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for award of any degree or diploma.

**Dr. C.JAYANTHI., M.Sc., M.Phil., Ph.D.,**  
**(HEAD OF THE DEPARTMENT)**

  
**Mrs S.VANI,**  
**(PROJECT ADVISOR)**

### EXAMINERS

1. 

2.

**Dr. P. PITCHAI, M.Sc., Ph.D.,**  
Assistant Professor,  
Department of Chemistry,  
Govt. Arts College (Autonomous),  
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**Dr(Mrs).S.JASMINE MARY, M.Sc., M.Phil.,Ph.D.,**  
**LECTURER IN CHEMISTRY,**  
**GOVERNMENT COLLEGE FOR WOMEN ( AUTONOMOUS),**  
**KUMBAKONAM – 612 001.**

---

**CERTIFICATE**

This is to certify that the project work entitled “**PHYTOCHEMICAL SCREENING AND ANTI-OXIDANT ACTIVITY OF *ECLIPTA PROSTRATA***” is a bonafide record of the research work carried out by **K.NIVETHA** under my guidance and supervision and that the thesis has not previously formed the basic for the award of any Degree, Diploma, fellowship or any other similar title to the candidate. It is also certified that work embodied in this thesis was carried out by **K.NIVETHA**.

**Dr.C. JAYANTHI**

**(HEAD OF THE DEPARTMENT)**

**Dr.S.JASMINE MARY**

**(PROJECT ADVISOR)**

**EXAMINERS**

1. 

2.

**Dr.K.VIMALA, M.Sc.,M.Phil.,B.Ed.,PGDCA.,Ph.D.,**

**(Lecture in Chemistry)**

**Government college for women (Autonomous),**

**PG & Research Department of Chemistry,**

**Kumbakonam – 612 001.**

### **CERTIFICATE**

This is to certify that the project work entitled **"DYEIGN OF COTTON CLOTH NATURAL DYE ECTRACTED FROM" "ORANGE PEEL AND ITS FASTNESS"** submitted by R.PAVITHA was done under my guidance in partial fulfillment of the requirements for the degree of **MASTER OF SCIENCE**, during the academic year 2020- 2021 in the faculty of chemistry is the original work of the candidate.

**Mrs.C.JAYANTHI**

**Head& Assistant professor of Chemistry**

  
23/4/21

**Dr.K.VIMALA**

**(Project Advisor)**

### **EXAMINERS**

1) 

2)

**Dr. P. PITTA, M.Sc.,Ph.D.,**  
Assistant Professor,  
Department of Chemistry,  
Govt. Arts College(Autonomous),  
Kumbakonam - 612 002, T.N. India.

Dr. K. VIMALA M.Sc., M.Phil., B.Ed., PGDCA., Ph.D.,

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### CERTIFICATE

This is to certify that the project work entitled "**DYEING OF COTTON CLOTH WITH NATURAL DYE EXTRACTED FROM POMEGRANATE PEEL AND ITS FASTNESS**" Submitted by **A. PRABHAVATHY** was done under my guidance in partial fulfillment of the requirements for the degree of **MASTER OF SCIENCE**, during the academic year 2020-2021 in the faculty of chemistry is the original work of the candidate.

Dr. C. JAYANTHI


Head & Assistant professor of chemistry



Dr. K. VIMALA

(Project advisor)

### EXAMINERS

1) 

2)

Dr. P. PITCHAI, M.Sc., Ph.D.,  
Assistant Professor,  
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**Dr(Mrs).S.JASMINE MARY, M.Sc., M.Phil.,Ph.D.,**  
**LECTURER IN CHEMISTRY,**

**GOVERNMENT COLLEGE FOR WOMEN ( AUTONOMOUS),**  
**KUMBAKONAM – 612 001.**

---

**CERTIFICATE**

This is to certify that the project work entitled “**PHYTOCHEMICAL SCREENING AND ANTI-OXIDANT ACTIVITY OF *ABUTILON INDICUM***” submitted by **Selvi. U.PREETHA** was done under my guidance in partial fulfilment of the requirements for the degree of **MASTER OF SCIENCE** during the academic year 2019 – 2021 in the faculty of chemistry the original work of the candidate.

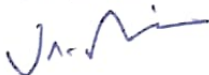
**Dr.C. JAYANTHI**

**(Head of the department)**

  
**Dr.S.JASMINE MARY**

**(Project advisor)**

**EXAMINERS**

1. 

2.

**Mrs. J.KANNAGI., M.Sc., M.Phil., B.Ed.,**

Lecturer in Chemistry

Government College for Women (Autonomous),  
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---

## CERTIFICATE

This is to certify that the dissertation work entitled “**ADSORPTION OF 2,4-D SODIUM SALT FROM AQUEOUS SOLUTION ONTO CORN COB ACTIVATED CARBON**” submitted by **E. RAMYA**, was done under my guidance in partial fulfillment of the requirements for the degree of **MASTER OF SCIENCE** during the academic year 2019-2021 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for award of any degree or diploma.




Dr. C. JAYANTHI., M.Sc., M.Phil., Ph.D,

**HEAD OF THE DEPARTMENT**

Mrs. J. KANNAGI., M.Sc., M.Phil., B.Ed.

**PROJECT ADVISOR**

### EXAMINERS

1. 

2.

Dr. P. J. JAYARAJ., M.Sc., M.Phil.,  
Assistant Professor,  
Department of Chemistry,  
Govt. Arts College (Autonomous),  
Kumbakonam - 612 001, T.N. India.

**Mrs.K. PUNITHA VALLI, M.Sc., M.Phil., Ph.D.,**

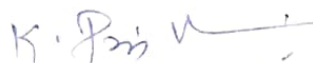
**LECTURE IN CHEMISTRY**

**GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)**

**KUMBAKONAM-612 001**

**CERTIFICATE**

This is to certify that the dissertation work entitled “**A STUDY OF SOIL ANALYSIS OF CULTIVATABLE LANDS AND UNCULTIVATABLE LANDS IN THANJAVUR DISTRICT**” Submitted by **Miss. E.SANGAVI** Was done under my guidence in partial fulfillment of the requirement for the degree of **MASTER OF SCIENCE** during the academic year 2019-2021 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for the award of any degree or diploma.



**Mrs. C. JAYANTHI, M.Sc., M.Phil.,Ph.D., Mrs.K.PUNITHAVALLI,,M.sc.,M.Phil.,Ph.D.,**

**HEAD OF THE DEPARTMENT**

**PROJECT ADVISOR**

**EXAMINERS.**

1. 

2.

**Dr. P. LITCI, M.Sc.,Ph.D.,  
Assistant Professor,  
Department of Chemistry,  
Govt. Arts College (Autonomous),  
Kumbakonam - 612 002, T.N.**



Dr.Mrs.C JAYANTHI ,M.sc .,M.Phil.,Ph.d.,

HEAD OF THE DEPARTMENT ,

GOVERNMENT COLLEGE FOR WOMEN(AUTONOMOUS)

KUMBAKONAM-612 001.

---

### CERTIFICATE

This is to certify that the project work entitled "EVALUATION OF PHYTO CHEMICAL COMPOSITION IN ANDROGRAPHIS PANICULATA" submitted by V.SANTHIYA was done under my guidance in partial fulfilment of the requirements for the degree of MASTER OF SCIENCE ,during the academic year 2020 -2021 in the faculty of chemistry is the original work of the candidate .

Dr .Mrs .C. JAYANTHI

(Project Advisor )

Dr.Mrs .C .JAYANTHI

Head of the Department of chemistry

Examiners .

1. 

2.

Dr. P. PITCHAI, M.Sc., Ph.D.,  
Assistant Professor,  
Department of Chemistry,  
Govt. Arts College (Autonomous),  
Kumbakonam - 612 002, T.N. India.

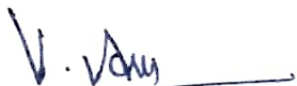


Dr. V.ANU., M.Sc., M.Phil.,Ph.D.,  
Lecturer in chemistry  
Government College For (Autonomous),  
Kumbakonam – 612 001.

### CERTIFICATE

This is to certify that the dissertation work entitled “CHARACTERIZATION AND ANTIBACTERIAL ACTIVITY OF GREEN SYNTHESIZED Co NANOPARTICLES USING SACCHARUM OFFICINARUM EXTRACT” Submitted by G.SURYA, Was done under my guidance in partial fulfilment of the requirement for the degree of MASTER OF SCIENCE during the academic year 2020-2021 in the faculty of chemistry the original work of the candidate . The work is not submitted to another institution for award of any degree or diploma.

Dr. C.JAYANTHI.,M.Sc., M.Phil.,Ph.D.,  
(HEAD OF THE DEPARTMENT )

  
Dr. V.ANU.,M.Sc.,M.Phil.,Ph.D.,  
PROJECT ADVISOR

Examiners

1. 

2.

Dr P. PITCHAI, M.Sc.,Ph.D.,  
Assistant Professor,  
Department of Chemistry,  
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Kumbakonam - 612 002, T.N. India.



**M.KIRUTHIGA, M.Sc., M.Phil., (Ph.D)**

(Lecturer in Chemistry)  
Government College For Women (Autonomous),  
Department of chemistry,  
Kumbakonam - 612 001.

---

**CERTIFICATE**

This is to certify that the dissertation work entitled "**BATCH ADSORPTION STUDIES ON THE REMOVAL OF Cr(VI) ION FROM AQUEOUS SOLUTION USING POTASSIUM HYDROXIDE ACTIVATED CARBON FROM THE AERIAL ROOT OF *FICUS BENGHALENSIS.L***" Submitted by **K.TAMILARASI**, was done under my guidance in partial fulfillment of the requirements for the degree of **MASTER OF SCIENCE** during the academic year 2019-2021 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for award of any degree or diploma.

**Dr. C.JAYANTHI., M.Sc., M.Phil., Ph.D.,**  
**(HEAD OF THE DEPARTMENT)**

*M. Kiruthiga 23.4.21*  
**M. KIRUTHIGA.,**  
**(PROJECT ADVISOR)**

**EXAMINERS**

1. *Dr. [Signature]*

2.

**Dr. P. PITC** Ph.D.,  
Assis  
Department of Chemistry  
(Autonomous),  
India.



Dr. V. ANU., M.SC., M.Phil.,Ph.d.,

(Lecturer in chemistry)

Government college for women (Autonomous),

Department of chemistry

Kumbakonam – 612 001.

### CERTIFICATE

This is certify that the dissertation work entitled "RECOVERY OF COPPEROXIDE NANOPARTICLES FROM GREEN SYNTHESIS OF IXORA COCCINEA AND EVALUSION OF ANTIBACTERIAL ACTIVITY" Submitted by S.VASUKI, was done under my guidance in partial fulfilment of the requirements for the degree of MASTER OF SCIENCE during the academic year 2020- 2021 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for award of any degree or diploma.

Dr. C.JAYANTHI.,M.SC.,M.Phil., Ph.D.,

(HEAD OF THE DEPARTMENT)



Dr.V. ANU., M.SC., M.Phil.,Ph.D.,

PROJECT ADVISOR

EXAMINERS

1.



2.

Dr. P. PITCHAI, M.Sc.,Ph.D.,  
Assistant Professor,  
Department of Chemistry,  
Govt. Arts College(Autonomous),  
Kumbakonam - 612 002, T.N.



**Dr. M. M. KIRUTHIGA, M.Sc., M.Phil., Ph.D**

(Lecturer in Chemistry)  
Government College For Women (Autonomous),  
Department of chemistry,  
Kumbakonam – 612 001.

## CERTIFICATE

This is to certify that the dissertation work entitled, “**FORMULATION AND EVALUATION OF MEDICATED SOAP OF AZADIRACHTA INDICA LEAF EXTRACT**” Submitted by **K.ARTHI**, was done under my guidance in partial fulfillment of the requirements for the degree of **MASTER OF SCIENCE** during the academic year 2020-2022 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for award of any degree or diploma.

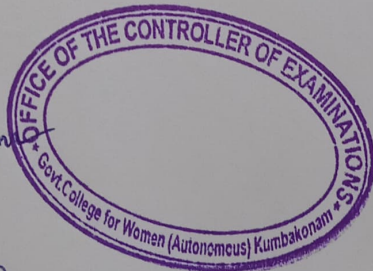
*C. Jayanthi*  
30/5/22

**Dr. C.JAYANTHI., M.Sc., M.Phil., Ph.D.,**  
**(HEAD OF THE DEPARTMENT)**

*M. Kiruthiga*  
**Dr.M.KIRUTHIGA**  
**(PROJECT ADVISOR)**

### EXAMINERS

- V. M. 09/06/22*
- M. Kiruthiga 19.6.22*



Mrs.K. PUNITHA VALLI, M.Sc., M.Phil.,Ph.D

LECTURE IN CHEMISTRY

GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)

KUMBAKONAM-612 001

## CERTIFICATE

This is to certify that the dissertation work entitled "A STUDY OF SOIL ANALYSIS ON CULTIVATABLE LANDS AND NON CULTIVATABLE LANDS" Submitted by Miss. N. ARTHI Was done under my guidance in partial fulfillment of the requirement for the degree of MASTER OF SCIENCE during the academic year 2020-2022 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for the award of any degree or diploma.

*C. Jayanthi*  
30/5/22

Dr.Mrs. C. JAYANTHI., M.Sc., M.Phil.,Ph.D.,MBA

HEAD OF THE DEPARTMENT

*K. Punitha Valli*

Mrs. K. PUNITHAVALLI M.Sc.,M.Phil.,Ph.D

PROJECT ADVISOR

EXAMINERS

1. *V. M. M.* 09/06/22
2. *K. Punitha Valli* 9/6/22



Dr. S. JASMINE MERY, M.Sc., M.Phil., Ph. D.,  
(LECTURER IN CHEMISTRY) Department of Chemistry  
GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS),  
KUMBAKONAM-612001.

CERTIFICATE

This is to certify that the project work entitled "ANALYSIS OF PHYTO-  
CONSTITUENTS AND EVALUATION OF IN VITRO  
HEPATOPROTECTIVEACTIVITY of *Vitex negundo* EXTRACT". Submitted by  
M. ARUNA was done under my guidance in partial fulfilment of the requirements for the  
degree of MASTER OF SCIENCE during the academic year 2021-2022 in the faculty of  
chemistry the original work of the candidate.

*C. Jayanthi*  
28/5/22

Dr. C. JAYANTHI

(Head of the Department)

*S. Jasmine*  
30.5.22

Dr. S. JASMINE MERY

(Project advisor)



EXAMINERS

1. *V. M. 09/06/22*
2. *S. Jasmine 9.6.22*

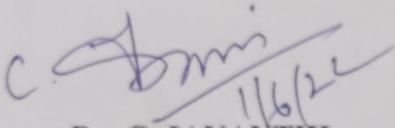


Dr. K. VIMALA, M.Sc., M.Phil., B.Ed., PGDCA., Ph.D.,  
Lecturer in Chemistry  
PG & Research Department of Chemistry,  
Government College for Women (Autonomous),  
Kumbakonam - 612001.

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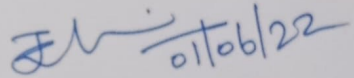
### CERTIFICATE

This is to certify that the project work entitled "PHYTOCHEMICALS AND EVALUATION OF *IN VITRO* ANTIUROLITHIATIC ACTIVITY OF *CYPERUS ROTUNDUS* RHI ZOME" submitted by S. DURGADEVI (Reg. No: P20CH004) was done under my guidance in partial fulfillment of the requirements for the degree of MASTER OF SCIENCE, during the academic year 2021-2022 in the faculty of chemistry is the original work of the candidate.

  
1/6/22

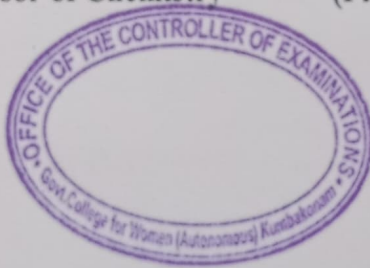
Dr. C. JAYANTHI

Head & Assistant professor of Chemistry

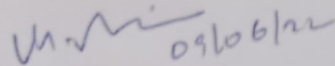
  
01/06/22

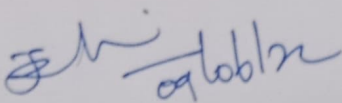
Dr. K. VIMALA

(Project Advisor)



### EXAMINERS

1.   
09/06/22

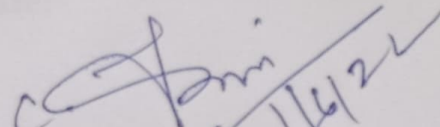
2.   
09/06/22

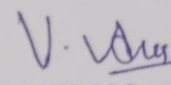
Dr. V. ANU, M. Sc., M. Phil., Ph.D.,  
Lecturer in Chemistry  
PG & Research Department of Chemistry  
Government College for Women (Autonomous)  
Kumbakonam

---

### CERTIFICATE

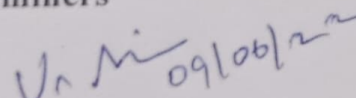
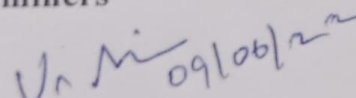
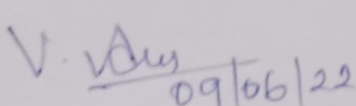
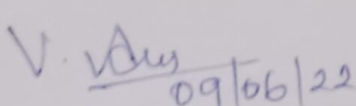
This is to certify that the dissertation work entitled  
“IDENTIFICATION OF PHYTOCHEMICAL AND EVALUATION  
OF *IN VITRO* ANTI DIABETIC ACTIVITY OF *Delonix elata*  
LEAVES” Submitted by N. ELAKIYA (Reg. No. P20CH005) was done  
under my guidance in partial fulfilment of the requirement for the degree of  
MASTER OF SCIENCE during the academic year 2021-2022 in the  
faculty of chemistry the original work of the candidate. The work is not  
submitted to another institution for award of any degree or diploma.

  
Dr. C. JAYANTHI, M. Sc., M. Phil., Ph. D., M.B.A  
HEAD OF THE DEPARTMENT

  
Dr. V. ANU, M.Sc., M. Phil., Ph.D.,  
PROJECT ADVISOR



#### Examiners

-   
1.   
09/06/22
-   
2.   
09/06/22

Mrs. A. ANITHA M.Sc., M. Phil., Ph.D.

LECTURER IN CHEMISTRY

DEPARTMENT OF CHEMISTRY

GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)

KUMBAKONAM - 612 001

### CERTIFICATE

This is to certify that the dissertation work entitled "PHOTOCATALYTIC DEGRADATION OF METHYL ORANGE DYE BY SYNTHESIZED NICKEL OXIDE NANOPARTICLES" submitted by Miss. S. GAYATHRI B. Sc was done under my guidance in Partial fulfilment of the Requirement for the degree of MASTER OF SCIENCE during the academic year 2021 - 2022 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for the award of any degree or diploma.

*C. Jayanthi*  
3/15/22

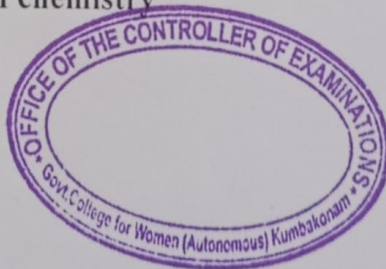
Dr. Mrs. C. JAYANTHI., M.Sc., M.Phil., Ph.D., MBA

*A. Anitha*

Mrs. A. ANITHA

Head & Assistant professor of chemistry

(Project Advisor)



### EXAMINERS

1. *V. M.* 09/06/22

2. *A. Anitha* 09/06/22



Dr. P. SRIMATHI, M.Sc., M.Phil., B.Ed., Ph. D.,

(Lecturer in Chemistry)

DEPARTMENT OF CHEMISTRY,

GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS),

KUMBAKONAM-612 001.

### CERTIFICATE

This is to certify that the project report entitled "RECOVERY OF ALUMINIUM HYDROXIDE NANOPARTICLES FROM USED ALUMINIUM FOIL AND EVALUATION OF IT'S ANTI BACTERIAL ACTIVITY" Submitted by K.KANIMOZHI was done under my guidance in partial fulfillment of the requirements for the degree of MASTER OF SCIENCE, during the academic year 2021-2022 in the faculty of chemistry is the original work of the candidate.

*C Jayanthi*  
30/5/22

Mrs.C.JAYANTHI, M.Sc., M.Phil., Ph.D., MBA

Head and assistant professor of chemistry

*P. Srinathi*  
25/5/22

Dr. P.SRIMATHI, M.Sc., M.Phil. B.Ed., Ph.D.,

(project advisor)

#### Examiners

1) *V. M. S.*  
09/6/22

2) *P. Srinathi*  
9/6/22



Dr. Mrs. G. SRIDEVI., M.Sc., M.Phil., Ph.D.

Lecture in Chemistry,

Department of Chemistry,

Government college for women

(autonomous), Kumbakonam-612001.

### CERTIFICATE

This is to certify that the project work entitled "PHYTOCHEMICAL SCREENING AND ANTIBACTERIAL ACTIVITY OF CINNAMOMUM VERUM" submitted by Miss. S KOUSALYA was done under my guidance in partial fulfillment of the requirements for the degree of MASTER OF SCIENCE during the academic year 2021 – 2022 in the faculty of chemistry the original work of the candidate.

*C. Jayanthi*  
30/5/22

Dr. C. JAYANTHI., M.Sc., M.Phil., Ph.D., M.BA  
(HEAD AND ASSISTANT PROFESSOR)

*G. Sri Devi*

Dr. Mrs. G. SRI DEVI  
(PROJECT ADVISOR)

### EXAMINERS

1. *U. M. Arlobin*

2. *G. Sri Devi*  
09/6/22



Mrs. S.VANI, M.Sc., M.Phil., B.Ed., (Ph.D)

(Lecturer in Chemistry)

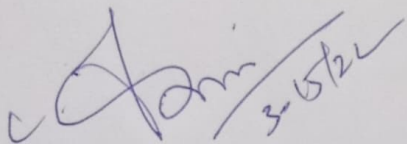
Government College for Women (Autonomous),

Department of chemistry,

Kumbakonam – 612 001.

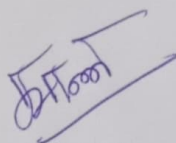
### CERTIFICATE

This is to certify that the dissertation work entitled "OPTIMIZATION OF CR (VI) ION SORPTION POTENTIAL FROM AN AQUEOUS SOLUTION ONTO PRUNUS DULCIS-SHELL ACTIVATED CARBON" Submitted by T. MATHIVATHANI was done under my guidance in partial fulfillment of the requirements for the degree of MASTER OF SCIENCE during the academic year 2020-2022 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for award of any degree or diploma.



Dr. C.JAYANTHI., M.Sc., M.Phil., Ph.D.,

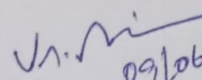
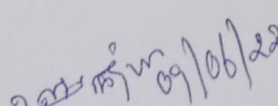
(HEAD OF THE DEPARTMENT)

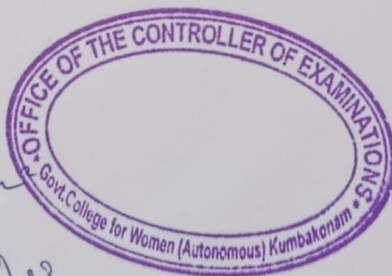


Mrs S.VANI

(PROJECT ADVISOR)

### EXAMINERS

1.  09/06/22
2.  09/06/22





Mrs. U.NITHYA, M.Sc., M.Phil.,

(Lecturer in Chemistry)

DEPARTMENT OF CHEMISTRY,

GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS),

KUMBAKONAM-612 001.

### CERTIFICATE

This is to certify that the project report entitled 'GREEN SYNTHESIS OF COPPER OXIDE NANOPARTICLES USING *mangifera indica* LEAVES EXTRACT AND EVALUATION OF ITS ANTIBACTERIAL ACTIVITY ON GRAM- POSITIVE AND GRAM -NEGATIVE' is bonafide record of work done by S.NANDHINI was done under my guidance in partial fulfilment of the requirements for the degree of MASTER OF SCIENCE, during the academic year 2021-2022 in the faculty of chemistry is the original work of the candidate.

*C. Jayanthi*  
30/5/22

Dr. C. JAYANTHI, M. Sc., M. Phil., Ph. D., M. B. A.

HEAD OF THE DEPARTMENT

*2021 15/5/22*  
30/5/22  
Mrs. U.NITHYA, M.Sc., M.Phil.,

PROJECT ADVISOR

Examiners

- 1) *U.N. Nithya* 09/06/22
- 2) *2021 15/5/22* 09/06/22



Dr. K. VIMALA, M.Sc., M.Phil., B.Ed., PGDCA., Ph.D.,  
Lecturer in Chemistry,  
Department of Chemistry,  
Government College for Women (Autonomous),  
Kumbakonam – 612 001.

---

### CERTIFICATE

This is to certify that the project work entitled "A STUDY ON BIOACTIVE COMPOUNDS SCREENING AND EVALUATION OF ANTIMITOTIC ACTIVITY OF *Strychnos potatorum* SEEDS" submitted by E. PRIYADHARSHINI, (Reg. No: P20CH011) was done under my guidance in partial fulfillment of the requirements for the degree of **MASTER OF SCIENCE**, during the academic year 2021 – 2022 in the faculty of chemistry is the original work of the candidate.

*C. Jayanthi*  
11/4/22

Mrs. C. JAYANTHI, M.Sc., M.Phil., Ph.D., MBA.,  
Head & Assistant Professor of Chemistry

*Dr. K. Vimala*  
01/06/22

Dr. K. VIMALA  
(Project Advisor)

### EXAMINERS

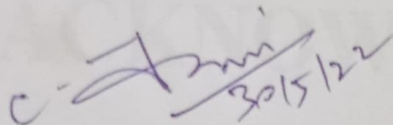
- 1) *V. V. V.*  
09/06/22
- 2) *[Signature]*  
09/06/22



J.KANNAGI, M.Sc., M.Phil., B.Ed.,  
LECTURER IN CHEMISTRY,  
GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS),  
KUMBAKONAM.

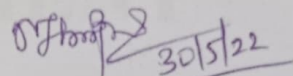
CERTIFICATE

This is to certify that the project work entitled "CORROSION INHIBITION OF MILDSTEEL USING ALTERNANTHERABETTZICKIANA" Submitted by A.RAMYA[REG.NO:P20CH013] was done under my Guidance in partial fulfillment of the requirement for the degree of MASTER OF SCIENCE, during the academic year 2021-2022 in the faculty of chemistry is the Original work of the candidate.

  
30/5/22

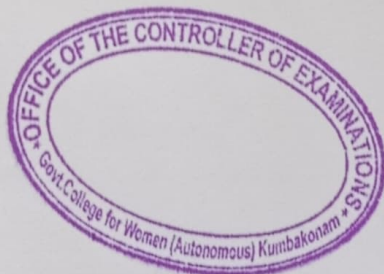
Dr. C.JAYANTHI M.Sc., M. Phil., Ph.D., M.B.A.

Head & Assistant Professor of Chemistry

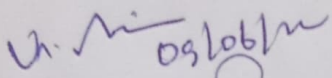
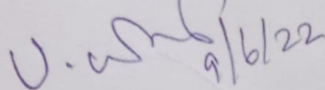
  
30/5/22

Mrs.J .KANNAGI

(project advisor)



EXAMINERS:

1.   
09/06/22
2.   
9/6/22



Dr. S. JASMINE MARY, M.Sc., M.Phil., Ph.D.,

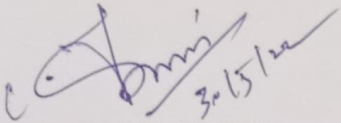
Lecturer in Chemistry,

Government college for Women (Autonomous)

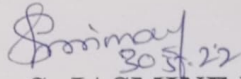
Kumbakonam-612 001.

## CERTIFICATE

This is to certify that the project work entitled "A STUDY ON QUALITATIVE, QUANTITATIVE ANALYSIS OF PHYTOCHEMICALS AND EVALUATION OF ANTI-STRESS ACTIVITY OF *Syzygium Cumini SEEDS*" submitted by Selvi. K. RAMYA, (P20CHO14) was done under my guidance in partial fulfilment of the requirements for the degree of MASTER OF SCIENCE during the academic year 2020-2022 in the faculty of chemistry the original work of the candidate.

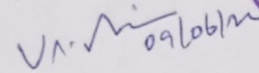
  
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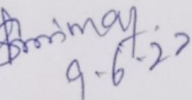
Dr. C. JAYANTHI  
(Head of the department)

  
30.15.22

Dr. S. JASMINE MARY  
(Project advisor)

## EXAMINERS

1.   
09/06/22

2.   
9-6-22



Dr. P. SRIMATHI, M.Sc., M.Phil., B.Ed., Ph. D.,

(Lecturer in Chemistry)

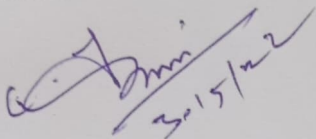
DEPARTMENT OF CHEMISTRY,

GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS),

KUMBAKONAM-612 001.

## CERTIFICATE

This is to certify that the project report entitled 'GREEN SYNTHESIS OF COPPER OXIDE NANOPARTICLES USING *PSIDIUM GUAJAVA* LEFE EXTRACT AND EVALUATION OF ITS ANTIBACTERIAL ACTIVITY' Submitted by T.RANI was done under my guidance in partial fulfillment of the requirements for the degree of MASTER OF SCIENCE, during the academic year 2021-2022 in the faculty of chemistry is the original work of the candidate.

  
25/5/22

Mrs. C. JAYANTHI, M.Sc., M.Phil., Ph.D., MBA

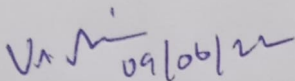
Head and assistant professor of chemistry

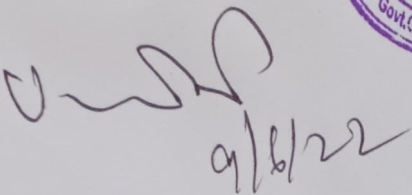
  
25/5/22

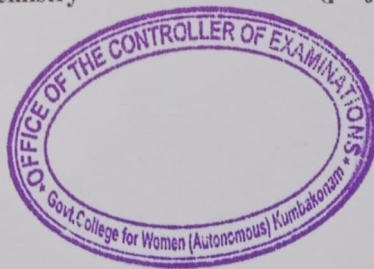
Dr. P. SRIMATHI, M.Sc., M.Phil. B.Ed., Ph.D.,

(project advisor)

### Examiners

1)   
09/06/22

2)   
9/6/22

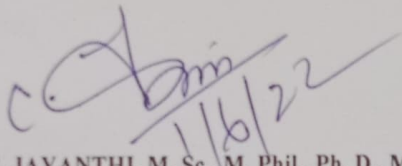


Dr. V. ANU, M. Sc., M. Phil., Ph.D.,  
Lecturer in Chemistry  
PG & Research Department of Chemistry  
Government College for Women (Autonomous)  
Kumbakonam

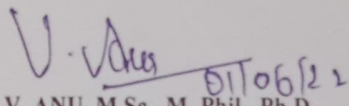
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### CERTIFICATE

This is to certify that the dissertation work entitled "ANALYSIS OF PHYTO-ORGANIC COMPOUNDS AND ASSESSMENT OF *IN VITRO* ANTI-ARTHRITIC *Mimosa pudica* PUDICA LEAVES EXTRACT" Submitted by A. SINEHA (Reg. No. P20CH017) was done under my guidance in partial fulfilment of the requirement for the degree of MASTER OF SCIENCE during the academic year 2021-2022 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for award of any degree or diploma.

  
1/6/22

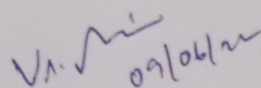
Dr. C. JAYANTHI, M. Sc., M. Phil., Ph. D., M.B.A  
HEAD OF THE DEPARTMENT

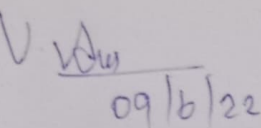
  
01/06/22

Dr. V. ANU, M.Sc., M. Phil., Ph.D.,  
PROJECT ADVISOR



#### Examiners

1.   
09/06/22

2.   
09/06/22



Mrs. S. VIJAYALAKSHMI, M. Sc., M. phil., Ph. D.,

Lecturer in Chemistry

Department of Chemistry

Government College for Women (Autonomous)

Kumbakonam

### CERTIFICATE

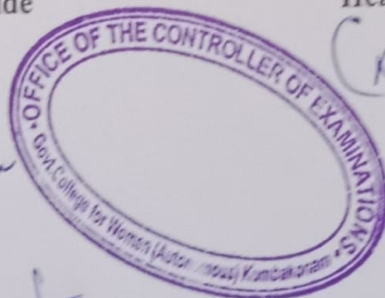
This is to certify that the Project report entitled "PHOTOCATALYTIC DEGRADATION OF METHYL ORANGE DYE BY SYNTHESIZED ZIRCONIUM OXIDE NANOPARTICLES" is a bonafide record works done by M. SIVAPRIYA, Reg. No. P20CH018 submitted to Government college for Women (A), Kumbakonam, Affiliated to Bharathidasan University, Thiruchirapalli in partial fulfilment of the requirement for the award of the degree of Master of Science in Chemistry during the year 2021-2022 in the department of chemistry under my guidance and supervision and the project report has previously formed the basis for the award of any degree diploma, fellowship or any other similar titles. I further work on the part of the candidate.

*S. Vijayalaxmi*  
Signature of the Guide

*Arin*  
30/5/22  
Head of the Department  
(Dr. C. Jayanthi)

Examiners

- V. M.*  
09/06/22
- S. V.*  
9/6/22



**Dr. C. JAYANTHI., M.Sc., M.Phil., Ph.D., M.BA**  
Assistant Professor & Head  
Department of chemistry  
Government college for Women (Autonomous)  
Kumbakonam-612 001.

---

### CERTIFICATE

This is to certify that the project work entitled “**SYNTHESIS, CHARACTERIZATION OF COPPER OXIDE NANOPARTICLES USING *Aegle marmelos* LEAVES AND EVALUATION OF ANTI-OBESITY ACTIVITY**” submitted by **B. SOWMIYA, (Reg. No: P20CH019)** was done under my guidance in partial fulfilment of the requirements for the degree of **MASTER OF SCIENCE** during the academic year **2020-2022** in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for award of any degree or diploma.

*C. Jayanthi*  
30/5/22

**Dr. C. JAYANTHI., M.Sc., M.Phil., Ph.D., M.BA**  
**(HEAD OF THE DEPARTMENT & PROJECT ADVISOR)**



#### Examiners

1. *V.N. Min*  
09/06/22
2. *C. Jayanthi*  
9/6/22

**Dr. C. JAYANTHI., M.Sc., M.Phil., Ph.D., M.BA**  
Assistant Professor & Head  
Department of chemistry  
Government college for Women (Autonomous)  
Kumbakonam-612 001.

---

### CERTIFICATE

This is to certify that the project work entitled  
“PHYTOCHEMICAL INVESTIGATION AND *IN VITRO* ANTI –  
INFLAMMATORY ACTIVITY OF *Tinospora cordifolia* LEAVES”  
submitted by Miss. S. SUBASHINI, (Reg. No: P20CH020) was done  
under my guidance in partial fulfilment of the requirements for the  
degree of **MASTER OF SCIENCE** during the academic year **2020-  
2022** in the faculty of chemistry the original work of the candidate.  
The work is not submitted to another institution for award of any degree  
or diploma.

*C. Jayanthi*  
8/15/22

**Dr. C. JAYANTHI., M.Sc., M.Phil., Ph.D., M.BA**  
**(HEAD OF THE DEPARTMENT & PROJECT ADVISOR)**

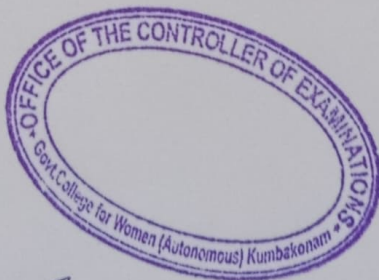
#### Examiners

1.

*V. S. Srinivasan*  
09/06/22

2.

*C. Jayanthi*  
9/16/22





Dr. Mrs. G. SRIDEVI., M.Sc., M.Phil., Ph.D.,

Lecture in chemistry,

Department of chemistry,

Government college for women (autonomous), Kumbakonam.

## CERTIFICATE

This is to certify that the project work entitled

“PHYTOCHEMICAL SCREENING AND ANTIMICROBIAL ACTIVITY OF CASSIA AURICULATA” submitted by **Miss. K.UTHAYASURIYA** was done under my guidance in partial fulfilment of the requirements for the degree of MASTER OF SCIENCE during the academic year 2021 – 2022 in the faculty of chemistry the original work of the candidate.

*C. Jayanthi*  
30/5/22

Dr. C. JAYANTHI., M.Sc., M .Phil., Ph.D., MBA.,

(HEAD AND ASSISTANT PROFESSOR),

*G. Sridevi*

Dr. Mrs. G. SRIDEVI,

(PROJECT ADVICER)

EXAMINERS

1.

*V. M. ...*  
09/06/22

2.

*G. Sridevi*  
9/6/22



Mrs. A. ANITHA M.Sc., M. Phil., Ph.D.

LECTURER IN CHEMISTRY

DEPARTMENT OF CHEMISTRY

GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)

KUMBAKONAM – 612 001

### CERTIFICATE

This is to certify that the dissertation work entitled "PHOTOCATALYTIC DEGRADATION OF METHYL ORANGE DYE BY SYNTHESIZED MANGANESE OXIDE NANOPARTICLES" submitted by Miss. R. UMA B. Sc was done under my guidance in Partial fulfilment of the Requirement for the degree of MASTER OF SCIENCE during the academic year 2021 - 2022 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for the award of any degree or diploma.

*C. Jayanthi*  
30/12/22

Dr. Mrs. C. JAYANTHI., M.Sc., M.Phil., Ph.D., MBA

Head & Assistant professor of chemistry

*Mrs. A. Anitha*

Mrs. A. ANITHA

(Project Advisor)

### EXAMINERS

1. *U. Uma*  
09/06/22

2. *M. Anitha*  
09/06/22



Mrs. U. NITHYA, M.Sc.,M.Phil.,

(Lecturer in Chemistry)

Department of Chemistry,

Government College for Women (Autonomous),

Kumbakonam – 612 001.

### CERTIFICATE

This is to certify that the project work entitled "GREEN SYNTHESIZED ZINC OXIDE NANOPARTICLES USING CASSIA AURICULATA LEAF EXTRACT AND EVALUATION OF ITS ANTIBACTERIAL ACTIVITY ON GRAM POSITIVE AND NEGATIVE" submitted by A. UMAL FAGIRIYA BEGUM was done under my guidance in partial fulfillment of the requirements for the degree of MASTER OF SCIENCE, during the academic year 2021 – 2022 in the faculty of chemistry is the original work of the candidate.

*C. Jayanthi*  
30/5/22

Dr. C. JAYANTHI, M.Sc., M.Phil., M.B.A., Ph.D.,

Head & Assistant Professor of Chemistry

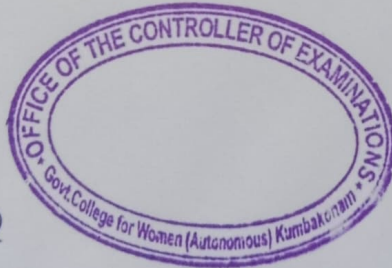
*U. Nithya*  
30/5/22

Mrs. U. NITHYA

(Project Advisor)

EXAMINERS,

- 1) *U. Nithya* 09/06/22
- 2) *U. Nithya* 09/06/22





J.KANNAGI, M.Sc., M.Phil., B.Ed.,

LECTURER IN CHEMISTRY,

GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS),

KUMBAKONAM.

CERTIFICATE

This is to certify that the project work entitled " CORROSION INHIBITION OF MILD STEEL USING *COUROUPITA GUIANENSIS* FLOWER EXTRACT " Submitted by S.VINOTHINI [REG.NO:P20CH024] was done under my Guidance in partial fulfillment of the requirement for the degree of MASTER OF SCIENCE, during the academic year 2021-2022 in the faculty of chemistry is the Original work of the candidate.

*C. Jayanthi*  
5/5/22

Dr. C.JAYANTHI M.Sc., M. Phil., Ph.D., M.B.A.

Head & Assistant Professor of Chemistry

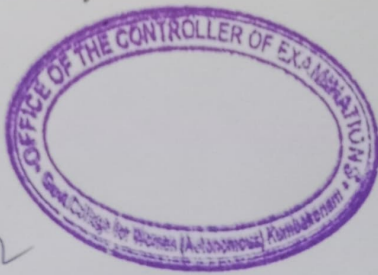
*J. Kannagi*  
30/5/22

Mrs. J.KANNAGI

(project advisor)

EXAMINERS:

1. *V. S. Srinivasan*  
09/06/22
2. *V. S. Srinivasan*  
9/6/22



Dr.P.Srimathi., M.sc., B.Ed., M.Phil., Ph.D.,

Lecture in Chemistry,  
Government College For Women (Autonomous),  
Kumbakonam – 612 001.

## CERTIFICATE

This is to certify that the dissertation work entitled “RECOVERY OF ZINC OXIDE NANOPARTICLES FROM WASTE BATTERY AND EVALUATION OF ITS ANTIBACTERIAL ACTIVITY AGAINST GRAM POSITIVE AND GRAM NEGATIVE PATHOGENS ” Submitted by R.ABIRAMI, Was done under my guidance in partial fulfillment of the requirements for the degree of MASTER OF SCIENCE during the academic year 2021-2023 in the faculty of chemistry The original work of the candidate. The work is not submitted to another institution for award Of any degree or diploma.

*C. Jayanthi*  
*27/11/23*

Dr.C. JAYANTHI.,M.Sc.,  
M.Phil.,P.hD.,

(HEAD OF THE DEPARTMENT)

*P. Srimathi*  
*28/4/23*

Dr. P. SRIMATHI.,M.SC., B.Ed.,  
M.Phil.,P.hD.,

( PROJECT ADVISOR)

### EXAMINERS

1. *Abhishek*  
*26/4/23*

2. *U. Srinivas*  
*27/4/23*







**Dr. S. JASMINE MARY, M.Sc., M.Phil., Ph.D.,**  
Lecturer in Chemistry,  
Government College for Women (Autonomous)  
Kumbakonam-612 001.

---

### CERTIFICATE

This is to certify that the project work entitled  
"PHYTOCHEMICAL SCREENING AND *IN VITRO*  
ANTI-DIABETIC ACTIVITY OF *OCIMUM SANCTUM* LEAVES  
EXTRACT" submitted by Selvi. G. ABITHA, (P21CH003) was done  
under my guidance in partial fulfilment of the requirements for the degree  
of **MASTER OF SCIENCE** during the academic year 2022-2023 in the  
faculty of chemistry the original work of the candidate.

*C. Jayanthi*  
27/4/23

**Dr. C. JAYANTHI**  
(Head of the Department)

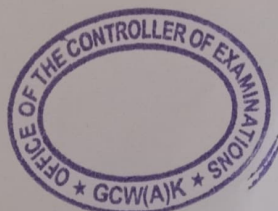
*S. Jasmine Mary*

25-4-23  
**Dr. S. JASMINE MARY**  
(Project advisor)

Examiner:

1. *[Signature]*  
27-4-2023

2. *[Signature]*  
27-4-23



**Dr. K. VIMALA, M.Sc., M.Phil., B.Ed., PGDCA., Ph.D.,**  
Lecturer in Chemistry,  
Government College for Women (Autonomous)  
Kumbakonam-612 001.

---

### CERTIFICATE

This is to certify that the project work entitled  
**“EXTRACTION OF NATURAL DYE FROM *CHRYSANTHEMUM*  
*INDICUM* AND ITS APPLICATION AS ANTIBACTERIAL DYES  
FOR COTTON CLOTH”** submitted by **Selvi. G. ANUSUYA**, was done  
under my guidance in partial fulfilment of the requirements for the degree  
of **MASTER OF SCIENCE** during the academic year 2022-2023 in the  
faculty of chemistry the original work of the candidate.

*C. Jayanthi*  
*27/4/23*  
**Dr. C. JAYANTHI**  
(Head of the Department)

*K. Vimala*  
*24/4/23*  
**Dr. K. VIMALA**  
(Project advisor)

Examiner:

1. *Albin*  
*25/4/2023*

2. *K. Vimala*  
*27/4/23*



Mrs. K. PUNITHA VALLI, M.Sc., M.Phil., Ph.D.,

LECTURE IN CHEMISTRY

GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)

KUMBAKONAM- 612 001.

### CERTIFICATE

This is to certify that the dissertation work entitled "A STUDY OF SOIL ANALYSIS OF CULTIVATABLE AND UNCULTIVATABLE LANDS IN VARIOUS TALUK AT THIRUVARUR DISTRICT" submitted by Miss. E. DURGA was done under my guidance in partial fulfillment of the requirement for the degree of MASTER OF SCIENCE during the academic year 2022-2023 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for the award of any degree or diploma.

*C. Jayanthi*  
*27/4/23*

Dr. Mrs. C. JAYANTHI, M.Sc., M.Phil., Ph.D., M.B.A.,

*K. Punitha Valli*  
Mrs. K. PUNITHA VALLI M.Sc.,  
M.Phil., Ph.D.,

HEAD OF THE DEPARTMENT

PROJECT ADVISOR

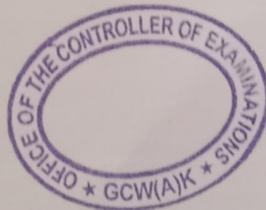
EXAMINERS

1.

*allu*  
*27.4.2023*

2.

*K. Punitha Valli*  
*27/4/23*





Dr. V. ANU, M.Sc., M. Phil., Ph.D.,

Lecturer in chemistry

Government College for Women (Autonomous), Kumbakonam.

---

CERTIFICATE

This is to certify that the project work entitled "GREEN SYNTHESIS OF ZINC OXIDE NANOPARTICLES AND ITS ANTI BACTERIAL ACTIVITIES" submitted by SELVI. D. GOWSALYA, (P21CH006) was done under my guidance in partial fulfilment of the requirements for the degree of MASTER OF SCIENCE during the academic year 2022-2023 in the faculty of chemistry the original work of the candidate.

*C. Jayanthi*  
27/4/23

Dr. C. JAYANTHI, M.Sc., M.Phil., Ph.D., MBA

Head of the Department

*V. Anu*  
24/04/23

DR. V. ANU, M.Sc., M.Phil., Ph.D.,

Project advisor

Examiner:

1. *[Signature]*  
27/4/23

2. *V. Anu*  
27/4/23



Dr. G. SRIDEVI, M.Sc., M. Phil., Ph.D.,  
Lecturer in chemistry  
Government College for Women (Autonomous),  
Kumbakonam.

**CERTIFICATE**

This is to certify that the project work entitled "**PHYTOCHEMICAL SCREENING AND ANTI-BACTERIAL ACTIVITY OF PHYLLANTHUS EMBLICA** " submitted by Ms. G.HARITHA, (P21CH007) was done under my guidance in partial fulfilment of the requirements for the degree of **MASTER OF SCIENCE** during the academic year 2021-2023 in the faculty of chemistry the original work of the candidate.

*C. Jayanthi*  
27/4/23

**Dr. C.JAYANTHI**

(Head of the Department)

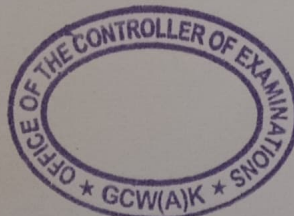
*G. Sridevi*  
24/4/23

**Dr.(Mrs) G.SRIDEVI**

(project adviser)

**Examiners**

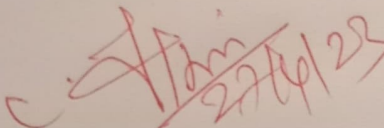
1. *[Signature]* 21.4.2023
2. *G. Sridevi* 27/4/23

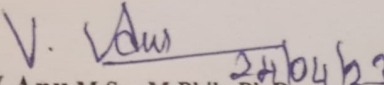


Dr. V. ANU, M.Sc., M.Phil., Ph.D.,  
Lecturer in Chemistry,  
Government College for Women (Autonomous)  
Kumbakonam-612 001.

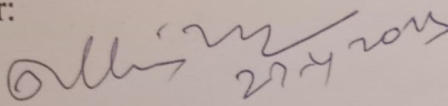
### CERTIFICATE

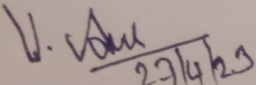
This is to certify that the project work entitled  
"DETERMINATION OF BIOACTIVE COMPOUNDS AND  
ASSESSMENT OF ANTI-STRESS ACTIVITY OF *PUNICA  
GRANATUM* PEEL EXTRACT" submitted by Selvi. B. ISWARYA,  
(P21CH008) was done under my guidance in partial fulfilment of the  
requirements for the degree of **MASTER OF SCIENCE** during the  
academic year 2022-2023 in the faculty of chemistry the original work of  
the candidate.

  
Dr. C. JAYANTHI M.Sc., M.Phil., Ph.D., M.B.A.,  
Head of the Department

  
Dr. V. Anu M.Sc., M.Phil., Ph.D.,  
Project advisor

Examiner:

1. 

2. 





**Dr. C. JAYANTHI, M.Sc., M.Phil., Ph.D., MBA.,**  
Assistant professor and Head  
Department of chemistry  
Government college for Women (Autonomous)  
Kumbakonam-612 001.

---

### CERTIFICATE

This is to certify that the project work entitled "A STUDY ON PHYTOCHEMICAL ANALYSIS AND ANTI- STRESS ACTIVITY OF *FICUS CARICA* FRUITS submitted by Selvi. M. JAYA (P21CH009) was done under my guidance in partial fulfilment of the requirements for the degree of MASTER OF SCIENCE during the academic year 2022-2023 in the faculty of chemistry the original work of the candidate.

*C. Jayanthi*  
*27/9/23*

**Dr. C. JAYANTHI**  
(Head of the Department and project advisor)

Examiner:

1. *[Signature]*  
*23/9/23*

2. *[Signature]*  
*27/9/23*



Dr. VIJAYALAKSHMI M.Sc., M. Phil., Ph.D

Lecturer in chemistry

Department of chemistry

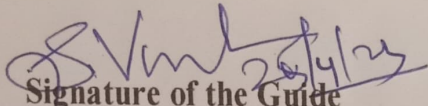
Government College for Women (Autonomous)

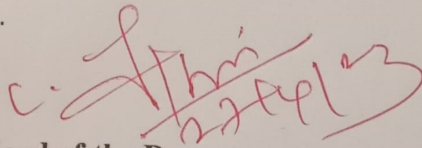
Kumbakonam-612 001

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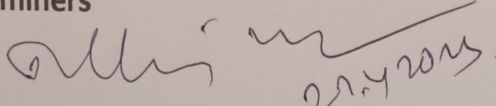
### CERTIFICATE

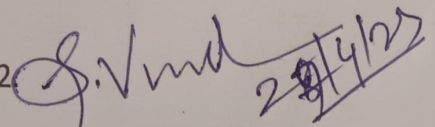
This is to certify that the project report entitled **ANTI-LUNG CANCER ACTIVITY OF PHYTOCONSTITUENTS FROM OCIMUM SANCTUM AGAINST SERINE PROTEASE INHIBITOR KAZAL-7** is a bonafide record works done by **K. KALAIVANI**, Reg. No. **P21CH010** submitted to Government College for Women (A), Kumbakonam, Affiliated to Bharathidasan University, Thiruchirapalli in partial fulfilment of the requirement for the award of the degree of **Master of Science in Chemistry** during the year **2022-2023** in the department of chemistry under my guidance and supervision and the project report has previously formed the basis for the award of any degree diploma, fellowship or any other similar titles. I further work on the part of the candidate.

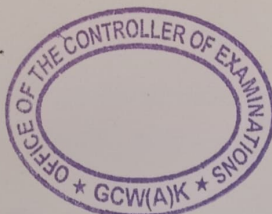
  
Signature of the Guide

  
Head of the Department

#### Examiners

1.   
20.4.2023

2.   
20/4/23



Dr. S. JASMINE MARY, M.Sc., M.Phil., Ph.D.,  
Lecturer in Chemistry,  
Government College for Women (Autonomous)  
Kumbakonam-612 001.

---

### CERTIFICATE

This is to certify that the project work entitled  
“PHYTOCHEMICAL PROFILING AND EVALUATION OF *IN VITRO* ANTIOXIDANT ACTIVITY OF *ALOE VERA*” submitted by  
Selvi. M. KAVITHA, (P21CH011) was done under my guidance in partial  
fulfilment of the requirements for the degree of **MASTER OF SCIENCE**  
during the academic year 2022-2023 in the faculty of chemistry the original  
work of the candidate.

*C. Jayanthi*  
27.4.23

**Dr. C. JAYANTHI**  
(Head of the Department)

*S. Jasmine Mary*  
24.4.23

**Dr. S. JASMINE MARY**  
(Project advisor)

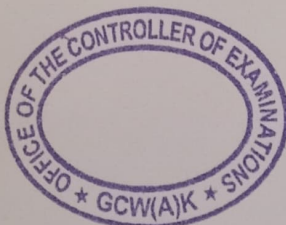
Examiner:

1.

*Alis*  
27.4.23

2.

*S. Jasmine Mary*  
27.4.23







Dr. P. SRIMATHI., M.Sc., M.Phil., B.Ed., PhD.,

(Lecturer in Chemistry)

DEPARTMENT OF CHEMISTRY,

GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS),

KUMBAKONAM-612 001.

### CERTIFICATE

This is to certify that the project work entitled "RECOVERY OF COPPEROXIDE NANOPARTICLES FROM WASTE DEPOPULATED CIRCUIT BOARD AND EVALUATION OF IT'S ANTI BACTERIAL ACTIVITY" submitted by S.MEERA was done under my guidance in partial fulfillment of the requirements for the degree of MASTER OF SCIENCE During the academic year 2022-2023 in the faculty of chemistry is the original work of the candidate.

*C. Jayanthi*  
27/4/23

*P. Srinathi*  
28/4/23

Dr. C.JAYANTHI., M.Sc., M.Phil., Phd.,MBA      Dr. P. SRIMATHI.,M.Sc., M.Phil.,B.Ed.,Ph.D.,

Head and assistant professor of chemistry

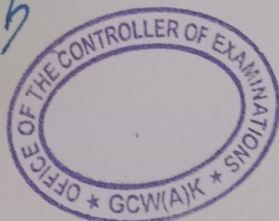
(Project advisor)

### EXAMINERS

1.

2.

*U. Srinathi*  
27/4/23





Dr. C. JAYANTHI, M.Sc., M.Phil., Ph.D., MBA.,  
Assistant Professor and Head  
Department of Chemistry  
Government College for Women (Autonomous)  
Kumbakonam-612 001.

---

### CERTIFICATE

This is to certify that the project work entitled  
“THROMBOLYTIC ACTIVITY AND EVALUATION OF  
PHYTOCHEMICAL SCREENING IN *BAUHINIA VARIEGATA*  
LEAVES EXTRACT” submitted by Selvi. L. NANDHINI ,(P21CH015)  
was done under my guidance in partial fulfilment of the requirements for  
the degree of **MASTER OF SCIENCE** during the academic year 2022-  
2023 in the faculty of chemistry the original work of the candidate.

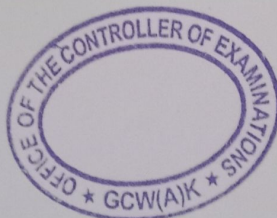
*Handwritten signature in red ink*  
27/4/23

Dr. C. JAYANTHI, M.Sc., M.Phil., Ph.D., MBA.,  
Head of the Department and Project advisor

Examiner:

1. *Handwritten signature in blue ink*  
21.4.2023

2. *Handwritten signature in blue ink*  
27/4/23





**Dr. C. JAYANTHI, M.Sc., M.Phil., Ph.D., MBA.,**  
Assistant professor and Head  
Department of chemistry  
Government college for Women (Autonomous)  
Kumbakonam-612 001.

---

### CERTIFICATE

This is to certify that the project work entitled  
“PHYTOCHEMICAL ANALYSIS AND ANTIUROLITHIATIC  
ACTIVITY USING *PHYLLANTHUS NIRURI* LEAVES EXTRACT”  
submitted by Selvi. M. NIRMALA (P21CH016) was done under my  
guidance in partial fulfilment of the requirements for the degree of  
MASTER OF SCIENCE during the academic year 2022-2023 in the  
faculty of chemistry the original work of the candidate.

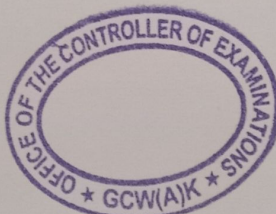
*C. Jayanthi*  
*27/4/23*

**Dr. C. JAYANTHI, M.Sc., M.phil., Ph.D., MBA.,**

(Head of the Department and project  
advisor)

Examiner:

- Allis*  
*27/4/23*
- C. Jayanthi*  
*27/4/23*



Mrs. K. PUNITHA VALLI M.Sc., M. Phil., Ph.D.,  
LECTURE IN CHEMISTRY  
GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)  
KUMBAKONAM - 612 001

CERTIFICATE

This is to certify that the dissertation work entitled "A STUDY OF SOIL ANALYSIS OF CULTIVABLE AND UNCULTIVABLE LANDS FROM VARIOUS GRAM PANCHAYAT AT THIRUVIDAIMARTHUR TALUK" Submitted by Miss. R. NITHYA was done under my guidance in partial fulfilment of the requirement for the degree of MASTER OF SCIENCE during the academic year 2022-2023 in the faculty of chemistry the original work of the candidate. The work is not submitted to another Institution for the award of any Degree or Diploma.

*C. Jayanthi*  
*27/04/23*  
Dr. C. JAYANTHI, M.Sc., M.Phil., Ph.D., M.B.A.,

*K. Punitha Valli*  
Mrs. K. PUNITHA VALLI M.Sc.,

M.Phil., Ph.D.,

HEAD OF THE DEPARTMENT

PROJECT ADVISER

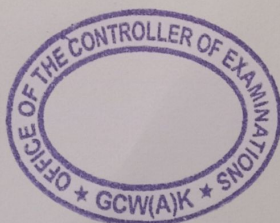
EXAMINER :

1.

*[Signature]*  
*27.4.2023*

2.

*K. Punitha Valli*  
*27/4/23*





**Dr.S. JASMINE MARY, M.Sc., M.Phil.,Ph.D.**

Lecturer in Chemistry  
Government College For Women (Autonomous),  
Department of Chemistry,  
Kumbakonam - 612 001.

---

### CERTIFICATE

This is to certify that the Dissertation work entitled "GREEN ROUTE TO SYNTHESIZE ZINC OXIDE NANOPARTICLES USING LEAF EXTRACTS OF ALOE VERA (*ALOE BARBADENSIS MILLER*) AND THEIR ANTI BACTERIAL POTENTIAL AGAINST GRAM POSITIVE AND GRAM NEGATIVE BACTERIA". Submitted by R. NIVETHA, was done under my guidance in partial fulfilment of the requirements for the degree of **MASTER OF SCIENCE** during the academic year 2022-2023 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for award of any degree or diploma.

*C. Jayanthi*  
27/4/23

**Dr.C.JAYANTHI, M.Sc., M.Phil., Ph.D.,**  
(HEAD OF THE DEPARTMENT)

*Jasmine Mary*  
27/4/23

**Dr.S.JASMINE MARY., M.Sc., M.Phil., Ph.D.,**  
(PROJECT ADVISOR)

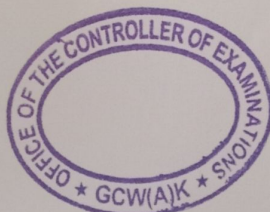
### EXAMINERS

1.

*G. Srinivas*  
27/4/23

2.

*Jasmine Mary*  
27/4/23





Dr. V. ANU, M.Sc., M.Phil., Ph.D.,  
Lecturer in Chemistry,  
Government College for Women (Autonomous)  
Kumbakonam-612 001.

---

### CERTIFICATE

This is to certify that the project work entitled "INVESTIGATION ON PHYTOCHEMICAL CHARACTERIZATION AND *IN VITRO* ANTIUROLITHIATIC ACTIVITY OF *TRIBULUS TERRESTRIS* THORN EXTRACT" submitted by Selvi. V. POORANI, (P21CH019) was done under my guidance in partial fulfilment of the requirements for the degree of **MASTER OF SCIENCE** during the academic year 2022-2023 in the faculty of chemistry the original work of the candidate.

*C. Jayanthi*  
*27/04/23*

Dr. C. JAYANTHI M.Sc., M.Phil., Ph.D., M.B.A.,  
Head of the Department

*V. Anu*  
*24/04/23*

Dr. V. Anu M.Sc., M.Phil., Ph.D.,  
Project advisor

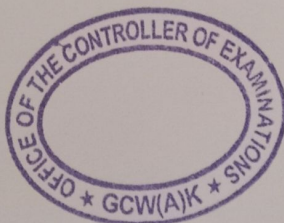
Examiner:

*[Signature]*  
*27.4.2023*

1.

2.

*V. Anu*  
*29/4/23*

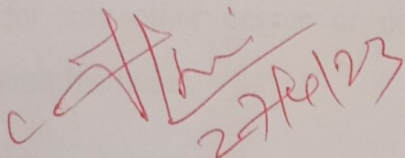


Dr. S. JASMINE MARY, M.Sc., M.Phil., Ph.D.,  
Lecturer in Chemistry,  
Government College for Women (Autonomous)  
Kumbakonam-612 001.

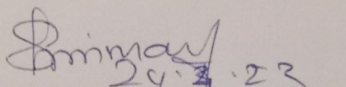
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### CERTIFICATE

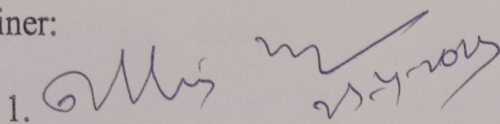
This is to certify that the project work entitled "A STUDY ON PHYTOCHEMICALS USING DIFFERENT EXTRACTION TECHNIQUES AND EVALUATION OF ANTIBACTERIAL ACTIVITY OF *OCIMUM SANCTUM* LEAVES" submitted by Selvi. B. POWLINMARY, (P21CH020) was done under my guidance in partial fulfilment of the requirements for the degree of MASTER OF SCIENCE during the academic year 2022-2023 in the faculty of chemistry the original work of the candidate.

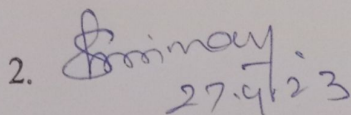
  
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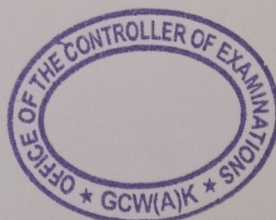
Dr. C. JAYANTHI  
(Head of the Department)

  
24.4.23  
Dr. S. JASMINE MARY  
(Project advisor)

Examiner:

1.   
27.4.2023

2.   
27.4.23





**Dr.P.SRIMATHI, M.Sc., M.Phil., B.Ed., Ph.D.,**

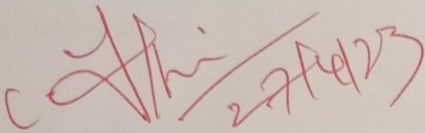
(Lecturer in Chemistry)

**Government College For Women (Autonomous),**

**Kumbakonam - 612 001.**

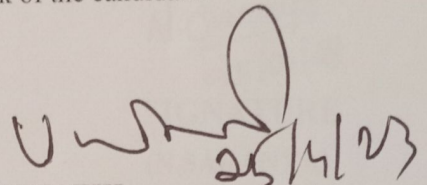
### **CERTIFICATE**

This is to certify that the Project work entitled **“RECOVERY OF IRON OXIDE NANOPARTICLES FROM WASTE INCENSE STICK ASH AND ITS EVALUATION ON ANTIBACTERIAL ACTIVITY.”** Submitted by **N.SAARANYA** was done under my guidance in partial fulfillment of the requirements for the degree of **MASTER OF SCIENCE** during the academic year 2022-2023 in the faculty of chemistry the original work of the candidate.



**Dr.C.JAYANTHI, M.Sc., M.Phil., Ph.D., MBA**

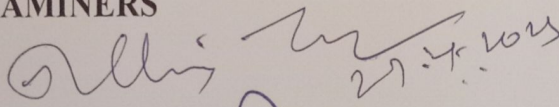
**(HEAD OF THE DEPARTMENT)**

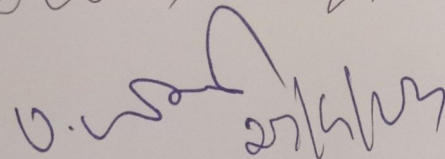


**Dr.P.SRIMATHI, M.Sc., M.Phil., B.Ed., Ph.D.,**

**(PROJECT ADVISOR)**

### **EXAMINERS**

1.  27.4.2023

2.  27/4/23



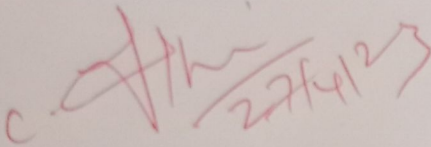


Dr. K. VIMALA, M.Sc., M.Phil., B.Ed., PGDCA., Ph.D.,  
Lecturer in Chemistry,  
Government College for Women (Autonomous)  
Kumbakonam-612 001.

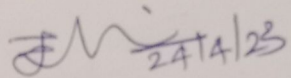
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### CERTIFICATE

This is to certify that the project work entitled "NATURAL DYE EXTRACTION FROM *BOUGAINVILLEA GLABRA* EXTRACT APPLIED TO COTTON CLOTH AND EVALUATION OF ANTIBACTERIAL ACTIVITY" submitted by Selvi. J. SEYALVIZHI was done under my guidance in partial fulfilment of the requirements for the degree of MASTER OF SCIENCE during the academic year 2022-2023 in the faculty of chemistry the original work of the candidate.

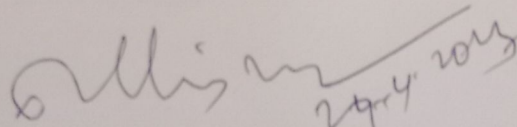
  
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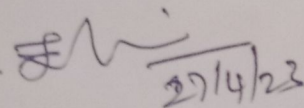
Dr. C. JAYANTHI  
(Head of the Department)

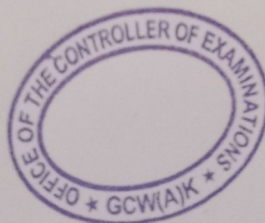
  
24/4/23

Dr. K. VIMALA  
(Project advisor)

Examiner:

1.   
24/4/2023

2.   
27/4/23



Dr. G. SRIDEVI, M.Sc., M.Phil., Ph.D.,

Lecturer in chemistry

Government College for Women (Autonomous),

Kumbakonam.

## CERTIFICATE

This is to certify that the project work entitled "PHYTOCHEMICAL SCREENING AND ANTI-BACTERIAL ACTIVITY OF ABUTILON INDICUM" submitted by Ms. S. SIVAPRIYA, (P21CH023) was done under my guidance in partial fulfilment of the requirements for the degree of MASTER OF SCIENCE during the academic year 2021-2023 in the faculty of chemistry the original work of the candidate.

*C. Jayanthi*  
*27/4/23*

**Dr. C. JAYANTHI**

(Head of the Department)

*G. Sridevi*  
*24/4/23*

**Dr. G. SRIDEVI**

(Project advisor)

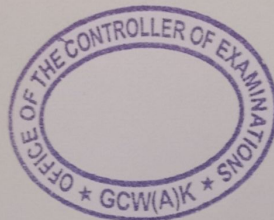
**Examiners**

1.

*[Signature]*  
*27-4-2023*

2.

*G. Sridevi*  
*27/4/23*









Dr. K. VIMALA, M.Sc., M.Phil., B.Ed., PGDCA., Ph.D.,  
Lecturer in Chemistry,  
Government College for Women (Autonomous)  
Kumbakonam-612 001.

### CERTIFICATE

This is to certify that the project work entitled  
“PHYTOCHEMICAL EVALUATION OF *Eucalyptus globulus*  
LEAVES AND ITS PHOTOCATALYTIC ACTIVITY UNDER  
SODIUM LIGHT IRRADIATION” submitted by Selvi. J. SURUTHI,  
was done under my guidance in partial fulfilment of the requirements for  
the degree of **MASTER OF SCIENCE** during the academic year  
2022-2023 in the faculty of chemistry the original work of the candidate.

*C Jayanthi*  
27/4/23

Dr. C. JAYANTHI  
Head of the Department

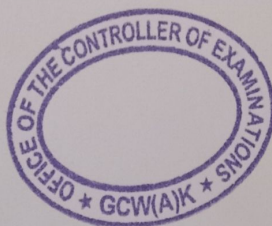
*K. Vimala*  
24/4/23

Dr. K. VIMALA  
Project advisor

Examiner:

1. *[Signature]* 27-4-2023

2. *[Signature]*  
27/4/23



Mrs. K. PUNITHA VALLI, M.Sc., M.Phil., Ph.D.,

LECTURE IN CHEMISTRY

GOVERNMENT COLLEGE FOR WOMEN (AUTONOMOUS)

KUMBAKONAM- 612 001.

CERTIFICATE

This is to certify that the dissertation work entitled "A STUDY OF SOIL ANALYSIS OF CULTIVATABLE AND UNCULTIVATABLE LANDS IN VARIOUS TALUK AT VILLUPURAM DISTRICT" submitted by Miss. K.VIGNESHWARI was done under my guidance in partial fulfillment of the requirement for the degree of MASTER OF SCIENCE during the academic year 2022-2023 in the faculty of chemistry the original work of the candidate. The work is not submitted to another institution for the award of any degree or diploma.

*C. Jayanthi*  
27/4/23

Dr. C. JAYANTHI, M.Sc., M.Phil., Ph.D., M.B.A.,

*K. Punitha Valli*

Mrs. K. PUNITHAVALLI,

M.sc., M.Phil., Ph.D.,

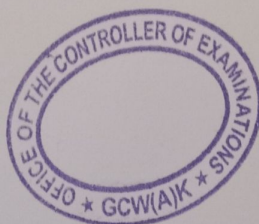
HEAD OF THE DEPARTMENT

PROJECT ADVISOR

EXAMINERS

1. *[Signature]*  
27/4/23

2. *[Signature]*  
27/4/23





**Dr. VIJAYALAKSHMI M.Sc., M. Phil., Ph.D.**

**Lecturer in chemistry**

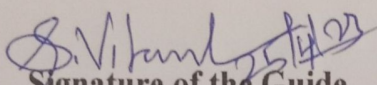
**Department of chemistry**

**Government College for Women (Autonomous)**

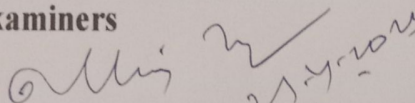
**Kumbakonam-612 001**

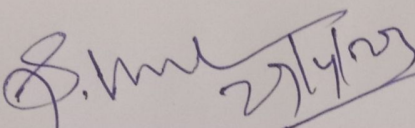
### CERTIFICATE

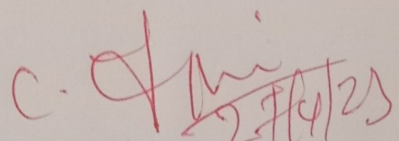
This is to certify that the project report entitled **ANTI-BREAST CANCER ACTIVITY OF PHYTOCONSTITUENTS FROM LEUCUS ASPERA AGAINST EXPORTIN-1** is a bonafide record works done by **R.YOGESWARI, Reg. No. P21CH027** submitted to Government College for Women (A), Kumbakonam, Affiliated to Bharathidasan University, Thiruchirapalli in partial fulfilment of the requirement for the award of the degree of **Master of Science in Chemistry** during the year **2022-2023** in the department of chemistry under my guidance and supervision and the project report has previously formed the basis for the award of any degree diploma, fellowship or any other similar titles. I further work on the part of the candidate.

  
**Signature of the Guide**

**Examiners**

1.   
25/4/23

2.   
27/4/23

  
27/4/23

**Head of the Department**

