ISOLATION, CHARACTERIZATION AND BIOLOGICAL ACTIVITY OF BIOACTIVE COMPOUNDS EXTRACTED FROM SENNA AURICULATA L.

A dissertation submitted to

RAJAH SERFOJI GOVERNMENT COLLEGE (AUTONOMOUS), THANJAVUR.

Affiliated to

BHARATHIDASAN UNIVERSITY, TIRUCHIRAPPALLI.

In partial fulfilment of the requirements for the award of the degree of

MASTER OF SCIENCE IN CHEMISTRY

Submitted By

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(REG. NO. 20PCH5225)

Under the Guidance of PROF. N. PUNITHA, M.Sc., M.Phil, ACDP. Assistant Professor of Chemistry



DEPARTMENT OF CHEMISTRY RAJAH SERFOJI GOVERNMEN OLLEGE (AUTONOMOUS)

> 13005 THANJAVUL

PHOTOCATALYTIC REDUCTION OF HEXAVALENT CHROMIUM IN QUINOLINIUM BROMOCHROMATE USING NIOBIUM PENTOXIDE, CALCINED Nb₂O₅ AND ZINC SULPHIDE

A Dissertation submitted to Rajah Serfoji Govt. College (Autonomous), Thanjavur-5, in partial fulfilment of the requirements for the degree of

Master of Science in Chemistry

13

23

23

By S.THAMIL SELVI Reg. No. 20PCH5224

Under the guidance of

Dr.N.INGARSAL M.Sc., M.Phil., B.Ed., Ph.D.,

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P.G. AND RESEARCH DEPARTMENT OF CHEMISTRY
RAJAH SERFOJI GOVT. COLLEGE

(AUTONOMOUS, NAAC 'A' GRADE & DST- FIST COLLEGE)
THANJAVUR – 613 005.
MAY-2022

SYNTHESIS, CHARACTERIZATION OF COPPER NANOPARTICLES AND IN VITRO ANTIOXIDANT ACTIVITYOF TECOMA STANS FLOWER

RAJAH SERFOJI GOVT.COLLEGE (AUTONOMOUS) ,THANJAVUR.

Affiliated To

BHARATHIDASAN UNIVERSITY, TIRUCHIRAPPALLI.

In partial fulfilment of the requirements for the award of the degree of

MASTER OF SCIENCE IN CHEMISTRY

Submitted By

K.SOWNDHARYA

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DEPARTMENT OF CHEMISTRY
RAJAH SERFOJI GOVT.COLLEGE (AUT NOMOUS)

THANJAVUR-613005

ISOLATION AND CHARACTERIZATION OF A NOVEL COMPOUND FROM MORINGA OLEIFERA LEAVES: PROTECTIVE EFFECTS OF ANTIOXIDANT ACTIVITY.

RAJAH SERFOJI GOVT.COLLEGE (AUTONOMOUS) ,THANJAVUR A Dissertation Submitted To

Affiliated To

BHARATHIDASAN UNIVERSITY, TIRUCHIRAPPALLI

In partial fulfilment of the requirements for the award of the degree of

MASTER OF SCIENCE IN CHEMISTRY

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DEPARTMENT OF CHEMISTRY RAJAH SERFOJI GOVT.COLLEGE (AUTONOMOUS)

THANJAVUR-613005

ISOLATION, CHARACTERIZATION AND BIOLOGICAL STUDY OF BIOACTIVECOMPOUNDS FROM EUPHORBIA HIRTA L.

RAJAH SERFOJI GOVT.COLLEGE (AUTONOMOUS) ,THANJAVUR

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BHARATHIDASAN UNIVERSITY, TIRUCHIRAPPALLI

In partial fulfilment of the requirements for the award of the degree of

MASTER OF SCIENCE IN CHEMISTRY

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DEPARTMENT OF CHEMISTRY
RAJAH SERFOJI GOVT.COLLEGE (AUTONOMOUS)

THANJAVUR-613005 2021-2022 A STUDY ON PHYTOCHEMICAL SCREENING, COLOUMN CHROMATOGRAPHY, UV-VISIBLE SPECTRAL ANALYSIS AND ANTIMICROBIAL ACTIVITY OF BORRERIA HISPIDA L.

RAJAH SERFOJI GOVT.COLLEGE (AUTONOMOUS). THANJAVUR

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BHARATHIDASAN UNIVERSITY, TIRUCHIRAPPALLI

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MASTER OF SCIENCE IN CHEMISTRY

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DEPARTMENT OF CHEMISTRY
RAJAH SERFOJI GOVT.COLLEGE (AUTONOMOUS)

THANJAVUR-61300

SECONDARY METABOLITES IN SENNA AURICULATA: IDENTIFICATION AND BIOLOGICAL ACTIVITY

RAJAH SERFOJI GOVT. COLLEGE (AUTONOMOUS), THANJAVUR

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BHARATHIDASAN UNIVERSITY, TIRUCHIRAPPALLI

In partial fulfilment of the requirements for the award of the degree of

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DEPARTMENT OF CHEMISTRY
RAJAH SERFOJI GOVT. COLLEGE (AUTONOMOUS)

THANJAVUR-613005

SYNTHESIS, CHARACTERIZATION AND THERMAL PROPERTIES OF TRIS[4-(2,5-DIOXOPYRROL-1-YL)PHENOXY]-1,3,5-TRIAZINE

A Dissertation submitted to

RAJAH SERFOJI GOVT. COLLEGE (Autonomous), THANJAVUR affiliated to

BHARATHIDASAN UNIVERSITY, THIRUCHIRAPPALLI

In partial fulfillment of the requirements for the award of the Degree of

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DEPARTMENT OF CHEMISTRY
RAJAH SERFOJI GOVT. COLLEGE (AUTONOMOUS)
THANJAVUR – 613005

May - 2022



PHYSICO-CHEMICAL CHARACTERIZATION OF LAKE WATER FROM MARRIAMMANKOVIL, THANJAVUR DISTRICT (INDIA)

A Dissertation submitted to Rajah Serfoji Govt. College (Autonomous), Thanjavur-5, in partial fulfillment of the requirements for the degree of

Master of Science in Chemistry

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P.G. AND RESEARCH DEPARTMENT OF CHEMISTRY RAJAH SERFOJI GOVT. COLLEGE (AUTONOMOUS)

THANJAVUR – 613 005.

(Re-accredited with "A" grade by NAAC)

MAY-2022

LOW COST ADSORBENT FOR RHODAMINE -B DYE REMOVAL FROM AQUEOUS SOLUTION USING MESC

A Dissertation submitted to Rajah Serfoji Govt. College (Autonomous), Thanjavur-5, in partial fulfillment of the requirements for the degree of

Master of Science in Chemistry

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THANJAVUR – 613 005.

(Re-accredited with "A" grade by NAAC)

A STUDY ON A NEWER APPROACH IN THE SYNTHESIS OF SILVER NANOPARTICLES USING DEEP EUTECTIC SOLVENTS

A dissertation submitted to Rajah Serfoji Govt College (Autonomous)
Thanjavur-613 005.

Affiliated with Bharathidasan University, Tiruchirappalli In partial fulfillment of the requirement for the award of a degree of

MASTER OF SCIENCE IN CHEMISTRY

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DEPARTMENT OF CHEMISTRY
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MAY - 2022

PREPARATION AND CHARACTERIZATION OF CADMIUM AND MERCURY NANOPARTICLES IN CHOLINE CHLORIDE-BASED DES

A dissertation submitted to Rajah Serfoji Govt College (Autonomous)
Thanjavur-613 005.

Affiliated with Bharathidasan University, Tiruchirappalli In partial fulfillment of the requirement for the award of a degree of

MASTER OF SCIENCE IN CHEMISTRY Submitted by

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RAJAH SERFOJI GOVERNMENT COLLEGE

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THANJAVUR-613 005.

MAY - 2022

PHYTOCHEMICAL ANALYSIS AND SPECTRAL STUDY OF CLITORIA TERNATEA LEAVES.

RAJAH SERFOJI GOVT.COLLEGE (AUTONOMOUS) ,THANJAVUR

Affiliated To

BHARATHIDASAN UNIVERSITY, TIRUCHIRAPPALLI

In partial fulfilment of the requirements for the award of the degree of

MASTER OF SCIENCE IN CHEMISTRY

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DEPARTMENT OF CHE JISTRY
RAJAH SERFOJI GOVT.COLLEGI (UTONOMOUS)

THANJAVUR-6130

"A COMPARATIVE STUDY OF WATER QUALITY PARAMETER OF BOREWELL WATER IN DIFFERENT DISTRICTS"

project submitted to

RAJAH SERFOJI GOVT. COLLEGE, (Autonomous), THANJAVUR.

Affiliated to Bharathidasan University, Tiruchirappalli, in partial fulfillment of the requirements for the award of the degree of

MASTER OF SCIENCE

IN

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THANJAVUR-613 005

MARCH-2022

PREPARATION AND CHARACTERIZATION OF ZINC AND CADMIUM NANOPARTICLES IN CHOLINE CHLORIDE-UREA DES

A dissertation submitted to Rajah Serfoji Govt College (Autonomous)

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A STUDY ON A NEWER APPROACH TO THE SYNTHESIS OF NICKEL NANOPARTICLES USING DEEP EUTECTIC SOLVENTS

A dissertation submitted to Rajah Serfoji Govt College (Autonomous) Thanjavur-613 005.

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MAY - 2022

SCREENING, SYNTHESIS AND CHARACTERIZATION OF COPPER NANOPARTICLES AND ANTIOXIDANT ACTIVITYUSING LEAVES OF FICUS RELIGIOSA (LINN).

RAJAH SERFOJI GOVT.COLLEGE (AUTONOMOUS) ,THANJAVUR

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DEPARTMENT OF CHEM FRY
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THANJAVUR-613005

A STUDY ON PHYTOCHEMICAL SCREENING, GC-MS ANALYSIS AND IN-VITRO ANTIOXIDANT ACTIVITY OFVITEX NEGUNDO (LINN).

RAJAH SERFOJI GOVT.COLLEGE (AUTONOMOUS) ,THANJAVUR

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BHARATHIDASAN UNIVERSITY, TIRUCHIRAPPALLI

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MASTER OF SCIENCE IN CHEMISTRY

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DEPARTMENT OF CHEM!
RAJAH SERFOJI GOVT.COLLEGE (AU

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OMOUS)

THANJAVUR-613005

A COMPARISION OF IODINE VALUES OF SOME EDIBLE OILS

A Dissertation Submitted To

RAJAH SERFOJI GOVT.COLLEGE (AUTONOMOUS), THANJAVUR

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BHARATHIDHASAN UNIVERSITY, TIRCHIRAPALLI

In partial fulfilment of the requirements for the award of the degree of

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A COMPARISION OF IODINE VALUES OF SOME EDIBLE OILS

A Dissertation Submitted To

RAJAH SERFOJI GOVT.COLLEGE (AUTONOMOUS), THANJAVUR

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BHARATHIDHASAN UNIVERSITY, TIRCHIRAPALLI

In partial fulfilment of the requirements for the award of the degree of

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THANJAVUR-613005

SOIL ANALYSIS

A Dissertation Submitted To

RAJAH SERFOJI GOVT.COLLEGE (AUTONOMOUS), THANJAVUR

Affiliated To

BHARATHIDHASAN UNIVERSITY, TIRCHIRAPALLI

In partial fulfilment of the requirements for the award of the degree of

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THANJAVUR-613005

SOIL ANALYSIS

A Dissertation Submitted To

RAJAH SERFOJI GOVT.COLLEGE (AUTONOMOUS), THANJAVUR

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BHARATHIDHASAN UNIVERSITY, TIRCHIRAPALLI

In partial fulfilment of the requirements for the award of the degree of

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DEPARTMENT OF CHEMISTRY
RAJAH SERFOJI GOVT.COLLEGE (AUTONOMOUS)

THANJAVUR-613005

GREEN SYNTHESIS OF COPPER NANOPARTICLES USING AQUEOUS LEAF EXTRACT OF LAWSONIA INERMIS

RAJAH SERFOJI GOVT.COLLEGE (AUTONOMOUS) ,THANJAVUR

Affiliated To

BHARATHIDASAN UNIVERSITY, TIRUCHIRAPPALLI

In partial fulfilment of the requirements for the award of the degree of

MASTER OF SCIENCE IN CHEMISTRY

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DEPARTMENT OF CHEMISTRY
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THANJAVUR-613005

GREEN SYNTHESIS OF COPPER NANOPARTICLES USING AQUEOUS LEAF EXTRACT OF CATHARANTHUS ROSEUS AND THIER ANTIMICROBIAL ACTIVITY

RAJAH SERFOJI GOVT.COLLEGE (AUTONOMOUS), THANJAVUR

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BHARATHIDASAN UNIVERSITY, TIRUCHIRAPPALLI

In partial fulfilment of the requirements for the award of the degree of

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DEPARTMENT OF CHEMISTRY
RAJAH SERFOJI GOVT.COLLEGE (AUTONOMO JS)

THANJAVUR-613005

A NOVEL SYNTHESIS AND CHARACTERIZATION OF DIASTEREOISOMERIC COMPOUNDS OF 2,6-DIARYL-1,4-OXATHIANES FROM DIPHENACYL SULPHIDE

Dissertation Submitted to the Rajah Serfoji Government College (Autonomous),

Thanjavur in partial fulfillment of the requirements for the award of

MASTER OF SCIENCE Degree course in

CHEMISTRY

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(NAAC 'A' Grade & DST-FIST Institution)
THANJAVUR-613 005
MAY- 2022.

A ONE-POT SYNTHESIS OF NITROGEN-CONTAINING HETEROCYCLES FROM CHALCONES AND PHENYLHYDRAZINE DERIVATIVES UNDER SOLVENT-FREE CONDITIONS

Dissertation Submitted to the Rajah Serfoji Government College (Autonomous),
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M.Sc., Degree course in

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THANJAVUR-613 005
MAY- 2022.



A GREEN SYNTHESIS OF HIGHLY SUBSTITUTED 1,5-DIKETONES BY C-C COUPLING

Dissertation Submitted to the Rajah Serfoji Government College (Autonomous), Thanjavur in partial fulfillment of the requirements for the award of

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THANJAVUR-613 005

MAY- 2022.

BIO-FABRICATION AND CHARACTERIZATION OF ZINC OXIDE NANOPARTICLES FROM CHITOSAN

A Dissertation submitted to the Rajah Serfoji Government College (Autonomous),
(NAAC 'A' Grade & DST-FIST Institution)

Affiliated to BHARATHIDHASAN UNIVERSITY, TIRUCHIRAPALLI in Partial fulfillment of the requirements for the award of the Degree of

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(NAAC 'A' Grade & DST-FIST Institution)
THANJAVUR -05
MAY- 2022

BIO-SYNTHESIS AND CHARACTERIZATION OF COBALT (II) OXIDE NANOPARTICLES FROM CHITOSAN

A Dissertation submitted to the Rajah Serfoji Government College (Autonomous),
(NAAC 'A' Grade & DST-FIST Institution)

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RAJAH SERFOJI GOVT.COLLEGE (AUTONOMOUS),
(NAAC 'A' Grade & DST-FIST Institution)
THANJAVUR -05
MAY- 2022

PHYTOCHEMICAL: UV-VISIBLE AND FT-IR SPECTROSCOPY AND ANTI-OXIDANT PROPERTIESFROM LEAVES OF

CITRUS LIMON EXTRACT.

A Dissertation Submitted To

RAJAH SERFOJI GOVT.COLLEGE (AUTONOMOUS),THANJAVUR

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In partial fulfilment of the requirements for the award of the degree of

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DEPARTMENT OF CHEMISTRY RAJAH SERFOJI GOVT.COLLEGE (AUTONOMOUS)

THANJAVUR-613005

SYNTHESIS, CHARACTERIZATION , CHALLENGES OF IRON OXIDE NANOPARTICLES AND BIOLOGICAL APPLICATIONS FROM

PIPER BETELLEAVES.

A Dissertation Submitted To

RAJAH SERFOJI GOVT.COLLEGE (AUTONOMOUS), THANJAVUR

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DEPARTMENT OF MISTRY
RAJAH SERFOJI GOVT.COLLEGE (AUTONOMOUS)

THANJAVUR-613005

CORROSION INHIBITION STUDY OF 1,3-DICHLORO-2-(1-NITRO-VINYL)-BENZENE ON MILD STEEL IN ACID SOLUTION

Project Report

submitted to the Rajah Serfoji Govt. College (Autonomous),
(Affiliated to BHARATHIDASAN UNIVERSITY, TIRUCHIRAPALLI)
in partial fulfillment of the requirements
for the Degree of

MASTER OF SCIENCE IN CHEMISTRY

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MAY - 2022

PG & Research Department Of Chemistry

RAJAH SERFOJI GOVT. COLLEGE (AUTONOMOUS)
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SPECTRAL STUDIES AND INVITRO ANTI-OXIDANT ACTIVITY OF ETHANOLIC EXTRACT OF MILLETTIA PINNATA LEAVES

RAJAH SERFOJI GOVT.COLLEGE (AUTONOMOUS) ,THANJAVUR

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BHARATHIDASAN UNIVERSITY, TIRUCHIRAPPALLI

In partial fulfilment of the requirements for the award of the degree of

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DEPARTMENT OF CHEMISTRY
RAJAH SERFOJI GOVT.COLLEGE (1977)
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THANJAVUR-

2021-2/2

A STUDIES ON SPECTRAL ANALYSIS AND ANTI DIABETIC POTENTIAL OF PSIDIUM GUAJAVA LEAVES

RAJAH SERFOJI GOVT.COLLEGE (AUTONOMOUS) ,THANJAVUR

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In partial fulfilment of the requirements for the award of the degree of

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DEPARTMENT OF CHEMISTRY
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THANJAVUR-/ 3005

2021-20 2

SYNTHESIS OF 5,5-DIPHENYL-2-THIOOXO-3-M-TOLYL-IMIDAZOLIDIN-4-ONE

Project Report submitted to the

Rajah Serfoji Govt. College (Autonomous), (Affiliated to BHARATHIDASAN UNIVERSITY, TIRUCHIRAPALLI)

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MAY-2022

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SYNTHESIS AND ANTI MICROBIAL ACTIVITY OF PARACETAMOL SOLID DISPERSION USING MORINGA OLEIFERA GUM

Project Report submitted to the

Rajah Serfoji Govt. College (Autonomous), (Affiliated to BHARATHIDASAN UNIVERSITY, TIRUCHIRAPALLI)

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MAY-2022

2

PG & Research Department of Chemistry

RAJAH SERFOJI GOVT. COLLEGE (AUTONOMOUS)
(Accredited by NAAC with 'A' Grade)
THANJAVUR 613005

EVALUVATION STUDY OF 1-CHLORO-3-FLUORO-2-(2-NITRO-VINYL)-BENZENE ON MILD STEEL IN ACID SOLUTION

Project Report

submitted to the Rajah Serfoji Govt. College (Autonomous), (Affiliated to BHARATHIDASAN UNIVERSITY, TIRUCHIRAPALLI) in partial fulfillment of the requirements for the Degree of

MASTER OF SCIENCE IN CHEMISTRY

Submitted by N. AKALYA (Reg. No: 20PCH5161)

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MAY - 2022

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RAJAH SERFOJI GOVT. COLLEGE (AUTONOMOUS)

(Accredited by NAAC with 'A' Grade)

THANJAVUR - 613 005.

PHOTOCATALYTIC REDUCTION OF Cr (VI) IN PYRIDINIUM FLUOROCHROMATE WITH NIOBIUM PENTOXIDE, CALCINED Nb₂O₅ AND ZINC SULPHIDE

A Dissertation submitted to Rajah Serfoji Govt. College (Autonomous), Thanjavur-5, in partial fulfilment of the requirements for the degree of

Master of Science in Chemistry

By R.SURYA Reg. No. 20PCH5159

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