PREPARATION OF PECTIN BASED BIO-POLYMER ELECTROLYTES FOR MAGNESIUM ION BATTERIES.

Internship report

Submitted by

Ms.T.RAGAPRIYA

Ms.J.LEKASRI

Under the guidance of

Dr. S.Karthickprabhu,

Assistant Professor,

Department of Physics,

Thiagarajar college of Engineering, Madurai.



Department of Physics Thiagarajar College of Engineering (Affiliated to Anna University) Madurai - 625015



The Research Centre of Physics Fatima College(Autonomous) Madurai - 625018

Certificate

This is the certify that be Internship work on PREPARATION OF PECTIN BASED BIO-POLYMER ELECTROLYTES FOR MAGNESIUM ION BATTERIES Submitted by Lekasri J (2023MSCP13),Ragapriya T (2023MSCP16), under the guidance of Dr. S.KarthickPrabhu, Assistant Professor, Department of Physics has been submitted as an internship report on 06.06.2024 at Thiagarajar college of engineering, Madurai.

A. Sheela Vimala Rani,

Head of the Department,

The Research Centre of physics,

Fatima college,

Madurai-625218.

Certificate

Certified that this Internship work entitled "Preparation of Pectin Based Bio-Polymer Electrolytes for Magnesium Ion Batteries" is the bonafide work of Ms.LekaSri J (2023MSCP13) and Ms.Ragapriya T (2023MSCP16), under the guidance of Dr. S, Karthickprabhu, Assistant professor, Department of Physics has been submitted as an Internship report on 11.06.2024 at Thiagarajar college of engineering, Madurai.

mmeh

Dr. M. Mahendran
Professor & Head
Department of Physics
Thiagarajar college of Engineering
Madurai – 625015.

Dr. M. MAHENDRAN, Ph.D., FASCh..
Professor and Head

Department of Physics
Thiagarajar College of Engineering
Madurai - 625 015

Dr. S. Karthickprabhu
Assistant professor
Department of Physics
Thiagarajar college of
Engineering, Madurai - 625015

Dr. S.KARTHICKPRABHU

***distant Professor of Physics
Tmagarajar College of Engineering
Madural - 625 015

DECLARATION

We hereby declare that the Internship report entitled on "Preparation of Pectin Based

Bio-Polymer Electrolytes for Magnesium Ion Batteries" submitted to Fatima college

(Autonomous), Madurai - 625018 to the award of degree of Master of Science in physics is a

record of original internship report carried out under the supervision of Dr.S.Karthickprabhu,

Assistant professor, Department of Physics, Thiagarajar college of engineering, Madurai.

J. Lexason

J.Lekasri

(2023MSCP13)

T. Ragapriya

(2023MSCP16)

Place: Madurai

Date: 11/06/2024

3

Acknowledgement

I am grateful to mention the people whose constant inspiration, guidance and Blessings made my internship work a successful one.

I thank God for his substantial blessings and mercy at all stages of the completion of my internship work. Taking this opportunity, I thank my parents and friends for their sacrifices in supporting me.

I feel honored to place a warm salutation to the management of **Thiagarajar College of Engineering**, **Madurai** which gave me the opportunity to have a strong base in physics and practical and theoretical knowledge.

I express my sincere thanks to **Thiagarajar College of Engineering**, **Madurai** for giving me a comfortable environment and extensive support rendered to carry out this Internship work successfully.

It is my immense pleasure to express my heartfelt thanks to Dr.M.Mahendran, Professor & Head, Department of Physics, Thiagarajar College of Engineering, Madurai for his valuable guidance and encouragement.

It is my immense pleasure to express my sincere gratitude to Dr.S.Karthicprabhu, Assistant Professor, Department of physics, Thiagarajar College of Engineering, Madurai. I owe my deep sense of gratitude and I feel extremely fortunate to have worked under him.