

**A SEQUEL DEVELOPMENT IN TRAPPING DIVALENT METAL SPECIES  
BY AGRONOMIAL PRODUCTS/ DERIVATIVES WITH IMPLEMENTATION  
OF PROTOTYPE DEVICE FOR INDUSTRIAL SCALE-UP**

Thesis submitted to the Bharathiar University in partial fulfillment of the  
requirements for the award of the degree of

**DOCTOR OF PHILOSOPHY IN CHEMISTRY**

By

**N. S. GAYATHRI M.Sc.,**

Under the Guidance of

**Dr. N. MUTHULAKSHMI ANDAL M.Sc., Ph.D.,**

Assistant Professor



**DEPARTMENT OF CHEMISTRY  
PSGR KRISHNAMMAL COLLEGE FOR WOMEN**

College of Excellence **nirf** 2018 – 16<sup>th</sup> Rank

An Autonomous Institution - Affiliated to Bharathiar University

Reaccredited with 'A' Grade by NAAC

An ISO 9001: 2015 Certified Institution

COIMBATORE – 641 004

**NOVEMBER 2018**