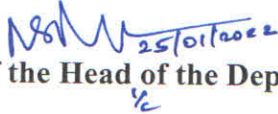
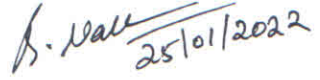



## CERTIFICATE

This is to certify that the thesis entitled "**Development of All Solid State Supercapacitors Delivering High Power Density using Carbon Derived from *P. juliflora* versus Pure and Transition Elements Doped Zinc cobaltite**" submitted to the Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore - 641 043, in partial fulfilment of the requirements for the award of the degree of Doctor of Philosophy (Ph.D.) in Physics, is a record of original research work done by **G. G. Soundarya**, during the period of her study in the Department of Physics under my supervision and guidance and the thesis has not formed the basis for the award of any Degree/ Diploma / Associateship / Fellowship or similar titles to any candidate of any other University or Institute.

  
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## DECLARATION

I, hereby declare that the matter embodied in this thesis entitled "**Development of All Solid State Supercapacitors Delivering High Power Density using Carbon Derived from *P. juliflora* versus Pure and Transition Elements Doped Zinc cobaltite**" is the result of investigation carried out by me in the Department of Physics, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore under the supervision and the guidance of **Dr. B. Nalini**, Assistant Professor, Department of Physics, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore and it has not submitted for the award of any Degree/ Diploma/Associateship/Fellowship etc., of any other University or Institute.

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