CERTIFICATE

This is to certify that the dissertation entitled "Green Synthesis of Zinc Oxide Nanoparticles Using Kalanchoe Tubiflora" submitted to the Karpagam Academy of Higher Education, in partial fulfilment of the requirements for the award of the Degree of Master of Science in Physics is a bonafide record of research work done by Gunasekaran S (18PHP023) during the period from 2019 - 2020 of his study in the Department of Physics at Karpagam Academy of Higher Education, under my supervision and guidance and the project report has not formed the basis for the award of any Degree/Diploma/ Associate ship/ Fellowship or other similar title to any candidate of any University.

Signature of Supervisor

Dr. E. Siva Senthil Associate Professor Head of the Department

Dr. E. Siva Senthil Associate Professor

Head of the Department
Department of Physics
Faculty of Arts Science and Humanitles
Karpagam Academy of Higher Education
Goimbatore – 641 021, Tamii Nadu, India.