

(2019-20) (1.3.4) (1506)

CERTIFICATE

This is to certify that the project report entitled “**PREPARATION AND CHARACTERIZATION OF NATURAL DYE SENSITIZERS USING ETHANOL AS A SOLVANT**” that is being submitted by **RATTHIKA M (17PHU050)** during the period 2019 - 2020 in partial fulfillment of the award of Bachelor of Science in Physics to the **KARPAGAM ACADEMY OF HIGHER EDUCATION** is a record of bonafide work carried out by him under my supervision and guidance. The contents embodied in the project report have not been submitted for the award of any other degree or diploma in this or any other university.



Signature of Supervisor

Dr. B. Janarthanan
Associate Professor



Head of the Department

Dr. E. Siva Senthil
Associate Professor
Head of the Department
Department of Physics
Faculty of Arts, Science and Humanities
Karpagam Academy of Higher Education
Coimbatore – 641 021, Tamil Nadu, India.