

## CERTIFICATE

This is to certify that the project report entitled “**FABRICATION OF DYE-SENSITIZED SOLAR CELLS USING CHLOROPHYLL PIGMENT AS DYE SENSITIZERS**” that is being submitted by **YAMUNA S (17PHU066)** 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.