

CERTIFICATE

This is to certify that the project report entitled “**ANTIBACTERIAL STUDIES OF MANGANESE OXIDE NANOPARTICLES USING AERVA LANATA (F) EXTRACT**” that is being submitted by **Ms. E.ANITHA SREE (17PHU003)** during **2019 – 2020** in partial fulfilment for the award of **BACHELOR OF SCIENCE IN PHYSICS** to Karpagam Academy of Higher Education is a record of bonafide work carried out by her under my guidance and supervision. 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 the Supervisor**

Dr. S. Sharmila
Associate Professor

**Head of the Department**

Dr. E. Sivasenthil
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.