

## CERTIFICATE

This is to certify that the dissertation entitled “**STRUCTURAL AND MORPHOLOGICAL ANALYSIS OF AS PREPARED PbBO<sub>4</sub> NANOPARTICLES**”, 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 **Mr. CHANDIRA SEKAR. N (18PHP009)** 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. S. Karruppusamy**  
Assistant 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.