## CERTIFICATE

This is to certify that the dissertation entitled "Electrospun NiCo<sub>2</sub>O<sub>4</sub> Spinel Nanofiber for Direct Methanol Fuel Cell Anode Catalyst" that is being submitted by V. KAVYA (18PHPO28) during 2019 – 2020 in partial fulfillment for the award of Master of Science in Physics to the 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 dissertation have not been submitted for the award of any other degree or diploma in this or any other university.

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