

Certificate

*Certified that the thesis entitled “**Synthesis and characterisation of new transition metal complexes of Schiff bases derived from 3-hydroxyquinoxaline-2-carboxaldehyde and application of some of these complexes as hydrogenation and oxidation catalysts**”, submitted by Mr. V. Arun is an authentic record of research work carried out by him under my supervision at the Department of Applied Chemistry in partial fulfillment of the requirements for the degree of Doctor of Philosophy in Chemistry of the Cochin University of Science and Technology and the work embodied in this thesis has not been included in any other thesis submitted previously for the award of any other degree.*

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