The research work embodied in the present Thesis entitled "APPLICATIONS OF PATHWAY MODEL AND SPECIAL FUNCTIONS IN APPLIED ANALYSIS AND REACTION RATE THEORY IN ASTROPHYSICS" has been carried out in the Centre for Mathematical Sciences, Pala, Kerala, India. The work reported herein is original and does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion or to any other scholar.

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