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Certified that Sri Sanjay Kumar Singh has completed the research work and fulfilled all the requirements for the submission of this thesis entitled "Studies in Present Expansion of the Universe" for the award of the degree of Doctor of Philosophy in Mathematics of U.B.S. Purvanchal University, Jaunpur (U.P.), India. The present research work has been carried on under my supervision, and that it is candidate's own work. The candidate has worked for the prescribed period.



(Dr. R. C. Upadhyay)

Supervisor