

CERTIFICATE

It is certified that the work contained in this thesis entitled “ **Exploration of Characteristics Governing Dynamics of Whirlwinds: Applications to Atmospheric Vortices** ” by “**Jagdish Prasad Maurya**” has been carried out under my supervision and that it has not been submitted elsewhere for a degree.

It is further certified that the student has fulfilled all the requirements of Comprehensive, Candidacy and SOTA.

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