

STUDIES IN TORNADO-LIKE UNSTEADY VISCOUS SWIRLING
FLOWS AND PRECIPITATION

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BY

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**STUDIES IN TORNADO-LIKE UNSTEADY VISCOUS SWIRLING FLOWS
AND PRECIPITATION**

CERTIFICATE

This is to certify that the thesis entitled "Studies in Tornado-Like Unsteady, Viscous Swirling Flows and Precipitation", being submitted by Sri S.N. Mahapatra to the Indian Institute of Technology, Delhi for the award of a Ph. D. degree in mathematics, is a record of bonafide research work carried out by him under my supervision for the last three years and to the best of my knowledge it has reached the standard, fulfilling the requirements of the regulations relating to the degree.

I further certify that the results contained in this thesis have not been submitted, either in part or in full, to any other university or institute for the award of any diploma or degree.



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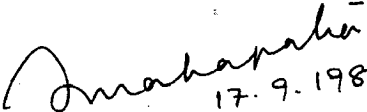
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