## **CERTIFICATE**

This is to certify that the thesis entitled "PREDICTION OF WEATHER PARAMETERS USING HARMONIC ANALYSIS AND ARTIFIC(AL NEURAL NETWORK." which is submitted by MRS. MANJUSHA KULSHRESTHA, in partial fulfillments for the DOCTOR OF PHILOSOPHY, in Applied mathematics is carried out under my supervision and guidance.

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## CERTIFICATE

I, Mrs. Manjusha Kulshrestha hereby certify that the thesis entitled "PREDICTION OF WEATHER PARAMETERS USING HARMONIC ANALYSIS AND ARTIFICIAL NEURAL NETWORK" is original and has been done by me.

I have taken up all the responsibilities of the material presented in the thesis on my self. This work has been guided by Dr. R. K. George

Dept. of Applied Mathematics, Faculty of Technology and Engineering, M S. University of Baroda,

Vadodara.

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ARTIFICIAL NEURAL NETWORK." which is submitted by MRS
MANJUSHA KULSHRESTHA, in Applied mathematics is hereby
approved for DOCTOR OF PHILOSOPHY.
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