<u>Certificate</u>

This is to certify that the research work embodied in the results of this thesis has been carried out independently by Ms Anuradha Goyle in pursuit of a doctoral degree in Foods and Nutrition and that this is the original work of Ms Anuradha Goyle.

& Super

Prof. Sunder Gujral Guide

Anuradha Goyle Ms Anuradha Goyle

un Johaedas

Prof. Tara Gopaldas Head Department of Foods and Nutrition