

ಮಂಗಳೂರು  
MANGALORE



ವಿಶ್ವವಿದ್ಯಾನಿಲಯ  
UNIVERSITY

ಆನ್ವಯಿಕ ಪ್ರಾಣಶಾಸ್ತ್ರ ವಿಭಾಗ  
DEPARTMENT OF APPLIED ZOOLOGY


Dr. K. K. Vijayalaxmi, Ph.D.  
Professor & Chairperson

Mangalagangothri - 574 199  
Phone : (0824) 2287373 (O)  
(0824) 2287749 (Lab)  
(0824) 2287136 (R)  
Email : kkv36@yahoo.co.in

## CERTIFICATE

This is to certify that the dissertation entitled "Evaluation of Cytoprotective and Antitumor effects of *Piper nigrum* Linn. and *Piper betle* Linn. Extract/Solvent fractions" is an authentic record of the original work done by Ms. Shilika Shetty under my guidance in partial fulfillment of the requirement for the degree of Master of Philosophy, under the Faculty of Applied Zoology of Mangalore University. I also certify that no part of this work has been presented before for any other degree or diploma.

  
Research Supervisor, 29/11/11

  
Countersigned by the Chairperson 29/11/11

**Dr. K. K. VIJAYALAXMI, Ph.D.**  
PROFESSOR & CHAIRPERSON & Research Supervisor  
DEPT. OF APPLIED ZOOLOGY  
MANGALORE UNIVERSITY  
MANGALAGANGOTHRI - 574 199