



Department of Plant Science  
School of Life Sciences  
**BHARATHIDASAN UNIVERSITY**  
Tiruchirappalli – 620 024.  
Tamil Nadu, India.

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**Prof. N. JAYABALAN**, M.Sc., Ph.D.  
UGC-BSR Faculty Fellow

### CERTIFICATE

This is to certify that the Ph.D., thesis entitled “***In vitro* culture and Agrobacterium – mediated gene transfer studies in Snake gourd (*Trichosanthes cucumerina* L.)**” submitted to Bharathidasan University Tiruchirappalli 620 024, for the award of degree of Doctor of Philosophy in Botany is an authentic record of original work carried out by **Mr. M. MUTHUVEL**, under my supervision and guidance at the Department of Botany, School of Life Sciences, Bharathidasan University, Tiruchirappalli, Tamil Nadu, India.

I further certify that no part of this thesis has previously formed the basis of the award to the candidate of any Degree, Diploma, Associateship, Fellowship or other similar titles of this or any other University or Society.

**N. JAYABALAN**