



**Department of Plant Sciences,
School of Life Sciences,
University of Hyderabad**

(A Central University established by the Act of Parliament & India's Institute of Eminence)
Hyderabad 500 046, Telangana.

CERTIFICATE

This is to certify that this dissertation entitled "**Isolation, Cloning and characterization of Plasmodesmatal Labelling protein (PDLP) from *Arabidopsis thaliana columbina-0* and localization studies through Confocal laser scanning Microscopy**" submitted by **Veenavanka Malavika** in partial requirement of the fulfilment for the award of degree of Master of Science in Biotechnology of the Kakatiya University is based on the results of the studies carried out by her under the guidance and supervision of **Dr. Rahul Kumar**, Assistant Professor, Department of plant sciences, School of life sciences, University of Hyderabad, Telangana, during March 2022 to August 2022.

It is further certified that this dissertation or any other part thereof has not been submitted elsewhere for any degree or diploma or similar title.

Head of the Department

(Prof. Rajagopal Subramanyan)

HEAD

Dept. of Plant Sciences
School of Life Sciences
University of Hyderabad
Hyderabad-500 046, India.

Supervisor

(Dr. Rahul Kumar)

Dr. RAHUL KUMAR
Assistant Professor
Dept. of Plant Sciences
School of Life Sciences
University of Hyderabad
Hyderabad-500 046, India