Statement I

The present investigation deals with the fate of an important amino acid 'proline' in the leaves of three promising tree species namely (1) Acacia auriculiformis (2) Anona squamosa and (3) Eucalyptus globulus.

Although the role of proline in crop plants is very well established, the same cannot be said about tree species. In the present investigation, an attempt has been made to study the dynamics of proline accumulation in relation to various environmental factors and endogenous factors. Thus this work represents an original contribution to tree physiology. Further this research work has not been previously submitted for the award of any degree in any Institute.

Statement II

The present work can be regarded as a continuation of the work on stress physiology carried out in our laboratory since last several years. However, this work reports a new investigation. The source from which an information is gathered have been listed in the 'Bibliography' part of the thesis. The current journals, reviews, books and monographs have been extensively referred during the course of investigation. Every attempt has been made to keep the reference work as upto-date as possible.

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