

## STATEMENT –I

The present investigation deals with ‘‘PATHOPHYSIOLOGICAL STUDIES IN *Vitis vinifera* L. (Grape) IN RELATION TO APPLICATION OF *Agave cantala* Roxb. LEAF EXTRACT’’. Some of the aspects related to organic and inorganic status of *Vitis vinifera* have been studied. The attempts have been made to investigate the fate of some organic constituents like chlorophyll, polyphenols, carotenoids were studied from healthy, infected and infected but *Agave cantala* leaf extract sprayed leaves of grape at flowering, fruiting and harvest stage. Total carbohydrates (reducing sugar, total sugar and starch), inorganic constituents like N, P, K, Ca, Mg, Fe, Mn, Zn, Cu, Mo and Co, enzymes such as catalase, peroxidase, polyphenol oxidase and invertase were also studied. Therefore, the present work represents an original contribution to studies on *Vitis vinifera* L. infected with downy mildew and treated with *Agave cantala* leaf extract with role of *Agave cantala* leaf extract in controlling disease.



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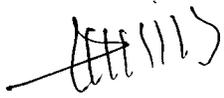


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## STATEMENT - II

The present investigation entitled “PATHOPHYSIOLOGICAL STUDIES IN *Vitis vinifera* L. (Grape) IN RELATION TO APPLICATION OF *Agave cantala* Roxb. LEAF EXTRACT”. The sources from which information gathered have been listed in the last part of the dissertation ‘Bibliography’. The current issue of Journals, reviews, articles, and textbooks have been extensively referred and correlated. Every attempt has been made to keep the reference work as up-to-date as possible.



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