Deterioration of timber quality of *Dalbergia sissoo* by a die-back pathogen *Lasiodiplodia theobromae*

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**Key words:**


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**SUMMARY**

*Sissoo (Dalbergia sissoo)* Roxb.) is an important timber tree planted in different regions of our country for its highly valuable wood. Die-back caused by *Lasiodiplodia theobromae* leads to deterioration of timber quality of infected plant. The present investigation was carried out to determine the activities of cellulases, xylanase and lignin peroxidase in degradation of chemical constituents of infected wood. The studies indicated that the pathogen is efficient producer of all these enzymes. Different cellulolytic enzymes showed highest activities from 30th to 40th days after incubation whereas xylanase and lignin peroxidase activities reached a peak on 20th and 30th days after incubation, respectively. The increased activities of these enzymes resulted ultimate decay of the sissoo wood.