

## Use of AMF inoculation under different concentration of domestic sewage water to improve growth of *Impatiens balsamina* L.

KIRAN P. KOLKAR<sup>1</sup> AND H.C. LAKSHMAN\*

Department of Studies in Botany, Microbiology Laboratory, Karnataka University,  
DHARWAD (KARNATAKA) INDIA

### **ABSTRACT**

A comparative study was made to analyse the effect of vesicular mycorrhizal fungi and different dilution of domestic sewage water on growth parameters of vigor of Niger plants. Overall results revealed that the plant height, biomass production was significantly improved at 25% diluted municipal sewage water with VAM inoculation. The increased biomass production and NPK uptake in mycorrhizal plants was higher over the non-mycorrhizal plants or plants treated with water alone. However, plant height, mycorrhizal colonization was negatively responded when plants with undiluted domestic sewage water with mycorrhizal inoculation.

**Key words** : Niger, Vesicular arbuscular (VA) mycorrhizal fungi, Domestic sewage water, Per cent colonization, Spore population, Biomass production

---

\* Author for correspondence.

<sup>1</sup> Department of Botany Karnataka Science College, DHARWAD (KARNATAKA) INDIA