

## ECOFRIENDLY MANAGEMENT OF MELOIDOGYNE JAVANICA AND MACROPHOMINA PHASEOLINA DISEASE COMPLEX OF BALSAM THROUGH APPLICATION OF BOTANICALS

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### Abstract

An experiment was conducted to study the efficacy of botanicals on the management of root-rot and root-knot disease complex of balsam. Individual application of leaves of some plants viz., *Calotropis procera*(aak), *Azadirachta indica* (neem) and *Acacia nilotica* (acacia) significantly improved the plant growth parameters as compared to control. The maximum increase in plant length, dry weight and number of flowers was observed in plants treated with *A. indica* followed by *C. procera* and *A. nilotica*. Amendment of either of the leaves of some plants such as *Calotropis procera*, *Azadirachta indica*, *Tagetes erecta* and *Juglans regia* significantly improved the plant growth parameters (length, dry weight and number of flowers) and reduced the reproduction factor, number of galls and intensity of root-rot as compared to untreated inoculated plants. Among these, amendments of leaves, *C. procera* was found to be the most effective in the management of disease complex followed by *A. indica*, *T. erecta* and *J. regia*.