## Comparative efficacy of native biocontrol agents and organic additives against *Meloidogyne incognita* on brinjal cv. Shyamla

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**ABSTRACT:** Studies were undertaken to determine the comparative efficacy of five biocontrol agents *viz., Aspergillus niger* strain ANB-2, *Trichoderma harzianum* strain TH-3, *T. virens* strain TV-6, *Paecilomyces lilacinus* strain PL-1 and *Pseudomanas fluorescens* PF-11 @ 0.05 g/kg each containing 10<sup>8</sup> cfu/g culture; four organic additives *viz.*, neem (*Azadirachta indica*) seed powder @ 0.05 g/kg, neem (*A. indica*) cake @ 0.15 g/kg, mint (*Mentha arvensis*) manure and farm yard manure @ 0.75 g/kg each against *Meloidogyne incognita* @ 1000 J<sub>2</sub>/kg soil under pot conditions. Results revealed that all the treatments significantly improved the fresh and dry weight of plant and reduced the root-knot index, except farmyard manure as compared to untreated inoculated plants. *P. lilacinus* strain PL-1 was found most effective in improving the fresh and dry weight of plant followed by *T. harzianum* strain TH-3, neem seed powder, neem cake, *T. virens* strain TV-6, *P. fluorescens* strain PF-11, *A. niger* strain ANB-2, mint manure and farmyard manure respectively.

Key Words: Biocontrol agents, brinjal, Meloidogyne incognita, organic amendment, management.