## BIOCONTROL POTENTIAL OF ENTOMOPATHOGENIC NEMATODES AGAINST GRAM POD BORER, HELICOVERPA ARMIGERA (HÜBNER)

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ABSTRACT: The effectiveness of three entomopathogenic nematode (EPN), Steinernema masoodi, S. seemae and S. mushtaqi against 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> instar and fully grown larvae of gram pod borer, Helicoverpa armigera (Hübner) were tested in the laboratory. The suitability of these different instar larvae of pod borer for the in vivo mass production of the nematodes was also estimated. Among the three species of EPN, S. mushtaqi was more pathogenic against all tested instar larvae followed by S. masoodi and S. seemae. Fully grown larvae was best host for the production of the infective juveniles of all tested species of EPN, followed by 4<sup>th</sup> instar, 3<sup>rd</sup> instar and 2<sup>nd</sup> instar larvae of pod borer. Variation of yield of IJs, percentage mortality and their ability to support large population can be correlated with the body size of tested insect. The present study gives a clue for 2<sup>nd</sup> instar larvae was more susceptible to EPN and fully grown larvae are best host for mass production of EPN.

Key Words: Entomopathogenic nematodes, Steinernema, efficacy, Helicoverpa armigera.