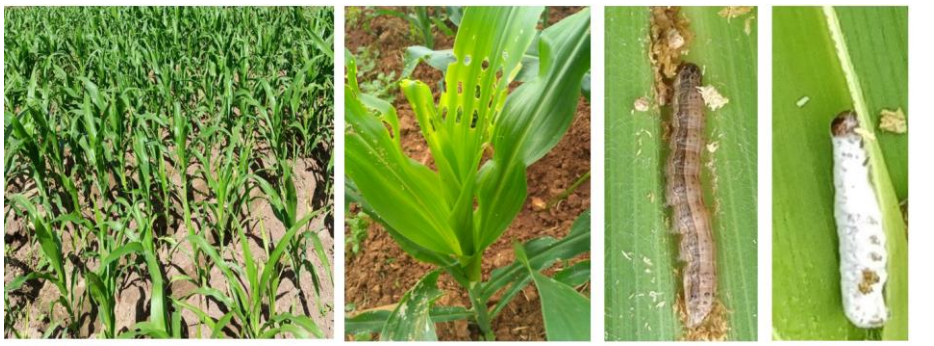
Shatpada Larvicide- *Metarhizium anisopliae* for management of Fall armyworm *Spodoptera frugiperda* in Maize

- **Brand Name:** Shatpada Larvicide
- **Microbial Constituent:** *Metarhizium anisopliae*
- ICAR-NBAIR Ma 35 strain
- **Microbial Culture deposition in National Culture Collection and accession number:** Deposited at ICAR-NBAIM on 14-09-2010. Accession number yet to be provided by ICAR-NBAIM. DNA finger print generated at ICAR-NBAIM, Mau.
- **Type of Formulation:** Both liquid (SC) and Talc formulation (2% WP) were developed containing minimum of $1x10^8$cfu/g
- **Target pest and crop:** Fall army worm (*Spodoptera frugiperda*) in Maize
- **Method of application:** Foliar application of talc/oil formulation. 200 litres of water/ha required for preparation of foliar suspension of the formulation for each spray. Since 3 rounds of sprays are to be given, 600 litres water/ha is needed.
- **Dosage of application:** Three foliar sprays of Shatpada Larvicide at the dose of 5g or 5ml/litre containing 1 x 10^8 cfu/g/ml should be given at 20, 30 and 40 days after sowing.
- **Target states:** Karnataka, Andhra Pradesh, Tamil Nadu & Maharashtra
- **Validation:** The technology was tested in Southern Karnataka (2018 & 2019) and at AICRP-Biocontrol centres at RARS, ANGRAU, Anakapalli, Andhra Pradesh (2018 & 2019), TNAU, Coimbatore, Tamil Nadu (2018 & 2019) and MPKV, Pune, Maharastra (2018 & 2019)

Effect of *M. anisopliae* (NBAIR-Ma35) on Maize (Hybrid BRMH-1) Fall army worm in Sothern Karnataka (Bangalore) during 2019



NBAIR Ma-35 treated plot | Untreated Plant | Healthy larvae | NBAIR Ma-35 Mycosed larvae

- **Benefits:**
  33-76% reduction in plant damage
  38-53%. increase in yield
- **Commercialization of technology:** Yet to be commercialized. All data **except Tox. data** has been generated for 9(3B) CIBRC Registration.

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