Shatpada Terminator - Liquid formulation of *Bacillus thuringiensis* isolates against lepidopteran pests

- Brand Name: Shatpada Terminator
- **Microbial Constituent**: *Bacillus thuringiensis* (ICAR-NBAIR-BTG4 strain)
- Microbial Culture and accession number: *Bacillus thuringiensis* var. *kurstaki* ICAR-NBAIRBTG4 (NCBI GenBank Accession JN120765 and JN120763; Identification and DNA Fingerprint obtained from NBAIM)
- Formulation type: Liquid formulation 1 x 10⁸ cfu/ml, Potency 16340 IU/mg
- **Target pest and crop**: Legume pod borer (*Helicoverpa armigera*, *Marucasp.*),diamond back moth (*Plutellaxylostella*), *Chilopartellus*, rice leaf folder, brinjal shoot borer (*Cnaphalocrocismedinalis*), and *Amsactaalbistriga*
- **Method of application**: Two to three foliar sprays at 10 to 20 mL/L of water at pre flowering and post flowering stages; Water required for each spray: 200 L/ha.
- **Dosage of application**: 10 to 20 mL/L mixed in water.
- Target states: Karnataka, Andhra Pradesh, Maharashtra, Tamil Nadu, Gujarat, Orissa
- Validation: The technology was tested at UAS-Raichur; AAU, Anand; RRS, Annakapalle; TNAU, Coimbatore; Karnataka; OUAT, Orissa during 2016-17, 2017-18, 2018-19, 2019-20.



Untreated plot



Treated plot

- Benefits: 83-85% reduction in pest; 19-35% increase in yield.
- **Commercialization of technology**: Toxicological data required for CIB&RC registration is available
- **Contact**: Director, ICAR- National Bureau of Agricultural Insect Resources, Bangalore-560 024. <u>director.nbair@icar.gov.in</u>

