

## Shatpada Chrys-Kill: Pesticide tolerant strain of aphid lion *Chrysoperla zastrowi sillemi*, an important predator of sucking pests

- **Brand Name:** Shatpada Chrys-Kill
- **Macrobial Strain :** *Chrysoperla zastrowi sillemi* (ICAR-NBAIR-PTS-8)
- **Macrobial Culture deposition & Accession No:** Deposited in Arthropod Germplasm Information System (AGIS) & National Accession No. NBAII-GN-CHR-08.
- **Production method:** Selection pressure with multiple insecticides and reared on factitious host insect *Corcyra cephalonica*
- **Target pest and crop:** Sucking pests especially aphids, thrips, mealybugs and whiteflies on cotton, vegetables, maize. apple
- **Method of application:** Attachment of Chrysopid eggs strips to plant canopy.
- **Dosage of application:** Chrysopid eggs @ 10,000/ha during the incidence of sucking pests.
- **Target states:** All over India
- **Validation:** The strain was validated on tomato and cotton in Tamilnadu and Punjab. In field demonstration against sucking pests of cotton (Ankur 3028-Hybrid) at Mansa Dist., Punjab, PTS-8 suppressed sucking pests effectively with high yield (25q/ha) and was significantly superior and reduced sprays of chemical pesticides by 40% in released fields. Besides , the predator was released on soybean, gram and other pulses and the area covered is 1060 ha in Punjab, Tamilnadu, M.P, Maharastra and Bihar.



### Filed validation of Pesticide Tolerant *Chrysoperla zastrowi sillemi*



- **Benefits:**

The existing strain of the predators are not effective in insecticide affected fields, whereas pesticide tolerant *Chrysoperla* feed on insect pests under pesticide and high temperature stressed cropping systems. The strain can be integrated with IPM Programme
- **Commercialization of technology:** The technology was sold to 2 private companies during 2010-13.

**Contact:** Director, ICAR- National Bureau of Agricultural Insect Resources, Bangalore-560 024. [director.nbair@icar.gov.in](mailto:director.nbair@icar.gov.in)