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ICAR

भा.कृ.अ.प. - केंद्रीय कपास अनुसंधान संस्थान, नागपुर
ICAR- Central Institute for Cotton Research (CICR)

ICAR-CICR INVITES expression of interest (EOI) for TECHNOLOGY TRANSFER /Commercialization

(EOI No.: ICAR-CICR/ITMU/Volatile attractant formulations for sucking pest management/Commercialization/2026-27)

Applications for Expression of Interest (EOI) are invited by ICAR – Central Institute for Cotton Research (CICR), Nagpur for the purpose of Technology Transfer/ commercialization **(Non-exclusive basis)** of the below-mentioned patented technologies from the organizations/Industries/Companies/Individuals with relevant experience.



1. ICAR-CICR Whitefly attractant



2. ICAR-CICR Jassid attractant



3. ICAR-CICR Aphid attractant



4. ICAR-CICR Thrip attractant



5. ICAR-CICR Beneficial insects' attractant

Technology background



- Sucking pests (Whiteflies, Jassids, Aphids, Thrips) are a deadly pest spread throughout the growing season, causing significant yield loss in cotton, apart from acting as vectors for many other plant diseases
- Sucking pests are immune to cry toxins & thus unsusceptible to Bt cotton. Reduction in pesticidal sprays at early stages in Bt cotton increased the sucking pests incidence.
- Farmers largely depend upto conventional chemical pesticides, which on indiscriminative use caused resistance development in sucking pests along with environmental pollution and higher cost of cultivation
- There is an urgent need for an alternative sustainable, ecofriendly, cost-effective sucking pest management in cotton. Though, Yellow sticky traps (YST) are commonly used as mechanical device to manage sucking pests in cotton, further enhancement of sucking pests to YST will be helpful.

Potential benefits of ICAR-CICR Attractant Formulations:

- Sucking pest attraction efficiency achieved: Whitefly (170%), jassids (195%), aphid (189%), thrips (175%)
- Usage cost of the attractants is Rs. 600 per ha
- Reduction in cultivation cost upto Rs. 8000 per ha on insecticides & Enhancement in Farm income
- Reduction in insecticidal sprays & Reduction in pest resistant development
- Reduction in environmental pollution & Enhancement in natural enemies population
- Enhancement in crop productivity (2-year Multi-locationally validated in 15 ICAR-AICRP Cotton centres)
- Scope for expansion to manage pests of other agricultural crops

Contact details:

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