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

ICAR-CICR invites expressions of interest (EOI) for Technology Transfer / Commercialisation

(EOI No.: ICAR-CICR/ITMU/AI Smart Trap/Commercialisation/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 / Commercialisation **(Non-exclusive basis)** of the **AI Smart Pheromone Trap** – an IoT and AI-enabled digital pest surveillance system for cotton.

AI Smart Pheromone Trap : Real-time • AI-enabled • Pest Surveillance for Cotton





Officially launched by Hon'ble Union Minister of Agriculture & Farmers Welfare **Sh. Shivraj Singh Chouhan,** and Hon'ble Chief Minister of **Maharashtra Sh. Devendra Fadnavis** during **2025**



Highlighted as one of the ICAR Success Stories during 2025

Indian Patent No.: 605828

Core Features:

- AI-based insect identification (YOLO v8)
- Automatic image capture & pest counting
- Integrated weather sensing (Temperature, RH, etc.)
- Real-time data transmission (4G/LTE) to web portal & mobile app
- Solar-powered with rechargeable battery
- Actionable advisories & ETL (Economic Threshold Level) alerts for timely IPM

Pilot Results (Punjab, 18 villages)

38.61%	34.2%	18.54%	PBW maintained below ETL (10%)
Reduction in pesticide usage	Reduction in pesticide costs	Increase in seed cotton yield	

Benefits to Stakeholders

- Precise and early detection of cotton Pink Bollworm
- Supports need-based and reduced pesticide use
- Cost-effective and eco-friendly pest management
- Improves cotton yield and profitability
- Scalable for large-area, village-level surveillance
- Digital platform for real-time monitoring, reports and analytics

Contact details:

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