

Success Story from Soybean Fields in Madhya Pradesh

During Kharif 2025, collaborative multilocation trials were taken up between ICAR-IIOR, Hyderabad and ICAR-NISST, Mau at JNKVV, Jabalpur (Madhya Pradesh) to evaluate biopolymer-based multilayer seed coating technology in soybean.

Despite facing drastic and erratic rainfall conditions during the season — which normally lead to poor germination, resowing needs, and wide plant gaps — the coated soybean seeds showed:

- Excellent plant stand establishment right from emergence.
- No requirement of resowing or gap filling, even under stress conditions.
- Uniform and vigorous growth, ensuring better early crop coverage.

This outcome highlights how biopolymer multilayer coatings can strengthen seed resilience, safeguard inputs, and support farmers in rainfed ecosystems where climate variability is a major challenge.



The collaboration demonstrates the power of science-to-field translation — turning innovative seed technologies into tangible benefits for farmers, reducing costs, and improving reliability in production.

Looking forward to scaling this innovation further for soybean and other rainfed crops across India.

#SeedTechnology #Soybean #Biopolymers #ClimateResilientAgriculture #ICAR #SustainableFarming #Kharif2025