

# **Training Program on 'Production Protocol for Biocontrol Agents and Microbial Biopesticides'**

**10<sup>th</sup> to 19<sup>th</sup> September, 2025 (10 days)**



## **Patron**

**Dr. Sagar Hanuman Singh, IPoS,**  
Director General, NIPHM

## **Course Director**

**Dr. OP Sharma, Director (PHM)**

## **Course Coordinator**

**Dr. S. Jesu Rajan, Scientific Officer (Ento.)**

**National Institute of Plant Health Management (NIPHM)**, an Autonomous Organization under DA&FW, Ministry of Agriculture and Farmers Welfare, Govt. of India aims to develop a committed and competent cadre of professionals to promote sustainable Plant Health Management (PHM) in India. Agriculture today faces the dual challenge of ensuring food security while reducing the dependency on chemical inputs. Biocontrol agents and microbial biopesticides provide an eco-friendly and sustainable alternative for pest management. Using bioinputs not only minimizes chemical residues in food chain and environment but also promotes soil health, biodiversity, and resilience against climate change. In this context, NIPHM is organizing a training program to build the capacity of stakeholders in the production protocols, quality assurance, and field application of biocontrol agents and microbial biopesticides.



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कृषि एवं किसान कल्याण विभाग, कृषि एवं किसान कल्याण मंत्रालय - भारत सरकार

**NATIONAL INSTITUTE OF PLANT HEALTH MANAGEMENT**

Department of Agriculture & Farmers Welfare, Ministry of Agriculture & Farmers Welfare, Government of India



Rajendranagar, Hyderabad- 500 030, Telangana, India

Tele-Fax: +91 40 24015346 Email: dirphmniphm-ap@nic.in Web: <http://niphm.gov.in>



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**Content of the training program:** This training programme provides comprehensive knowledge on production protocols for host cultures, parasitoids, predators, entomopathogenic nematodes,. During this course preparation and maintenance of pure cultures of beneficial fungi and bacteria, protocols and formulations for biopesticides such as NPV, *Trichoderma viride*, *Pseudomonas fluorescens*, and entomopathogenic fungi. The course also includes guidance on digital tools for plant protection, establishing Bio-input Resource Centres (BRCs), etc.,

**Participants will undergo hands on practice and exposure to:**

- ✓ Mass production techniques of biocontrol agents and microbial biopesticides
- ✓ Formulation and quality standards of microbial biopesticides
- ✓ Regulatory and biosafety guidelines
- ✓ Field-level application methods for effective pest management

The program will be conducted in on campus mode through lectures, laboratory demonstrations, hands-on exercises, and field visits.

**Eligibility:** Extension officers, Technical/ Scientific Officers, Sr. Officers, staff working in biocontrol labs etc., in State Department of Agriculture / Horticulture, DPPQ&S, Scientists of ICAR, SAUs and KVKs. Private participants related to the subject with minimum graduate in biological sciences are also permitted on payment basis.

**Fee details:** (inclusive GST)

For Govt. officials	For Non Govt. / other Ministry officials
<b>Training fee:</b> Nil <b>Accommodation:</b> Free (Hostel 1: double occupancy) <b>Boarding:</b> Rs. 305/day	<b>Training fee:</b> Rs. 1250/day <b>Accommodation:</b> Hostel 1: Double occupancy Rs. 500/day or Single occupancy: Rs. 1000/ day <b>Boarding:</b> Rs. 305/day



**How to apply:**

The participants can apply online on NIPHM website:

Training ID: 1141 & Course Code: PHM352

**Link for registration:** <http://14.139.92.166/otr/register.aspx>

**Email:** [dirphmniphm-ap@nic.in](mailto:dirphmniphm-ap@nic.in) / [jesu.rajana@gov.in](mailto:jesu.rajana@gov.in)

**Contact Person:** Dr. S. Jesu Rajan +91 9704514603