



# राष्ट्रीय वनस्पति स्वास्थ्य प्रबंधन संस्थान NATIONAL INSTITUTE OF PLANT HEALTH MANAGEMENT

Department of Agriculture & Cooperation, Ministry of Agriculture, Government of India

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## International Training Schedule 2015-16

### Biosecurity Risks



### Biosecurity Risk Management

#### Pre-Border

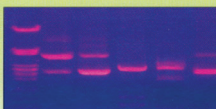


#### Border

##### Detection



##### Diagnosis



#### Post-Border



### Vapour Heat Treatment (VHT): Promote Fruit Export



### Fumigation (Methyl Bromide): Pest Free Grain Export



### Forced Hot Air Treatment (FHAT) : Pest Free Wood Packing Material





# Agro Eco-System Analysis based Plant Health Management



## Agro-Ecosystem Analysis in Rice



## Ecological Engineering for Pest Management



**G**rowth in agricultural production, which is dependent on several factors such as weather conditions, soil fertility, irrigation etc, is further subject to debilitating influence of pests and nutritional imbalances. It is estimated that in India, crop losses due to pests will be in the range of 10 to 30%, which may be exacerbated due to the looming threat of climate change. Intensive use of ecosystems to enhance productivity can erode ecosystems and cause disruption to the flow of ecosystem services, which in-turn will affect plant health and biosecurity. There is an urgent need to update the scientific knowledge of the stakeholders in agricultural sector, more so in the light of emerging challenges.

## About NIPHM

National Institute of Plant Health Management (NIPHM) is a premier national level institute under the administrative control of the Department of Agriculture and Cooperation, Government of India. Established in the year 1966 at Hyderabad, the Institute, as approved by the Union Cabinet, was converted as an autonomous body on 24th October, 2008 with an expanded scope of promoting environmentally sustainable Plant Health Management practices in diverse and changing agro-climatic conditions and Biosecurity Management and Pesticide Management through capacity building programmes, besides providing inputs for policy formulation on Plant Health Management, Biosecurity, Invasive Alien Species, Market Access etc at state and national level.

The capacity building programmes in different areas are offered by NIPHM through on campus programmes at Hyderabad as well as off campus programmes in India and foreign countries by its following 4 major technical divisions: a) Plant Health Management, b) Plant Biosecurity, c) Pesticide Management and d) Information and Communication Technology. NIPHM also specializes in Plant Health Engineering and Vertebrate Pest Management.

## Aim of the Training Programmes

Develop a committed and competent cadre of professionals to promote sustainable plant health and biosecurity management in India & her neighbourhood.

## A BRIEF OUTLINE OF THE PROGRAMMES

### Post Graduate Diploma in Plant Health Management (PGDPHM): 1 yr Programme

The programme develops expertise in plant health management, the science and practice of understanding and overcoming the biotic and abiotic factors that limit plants from achieving their full genetic potential as crops. The programme also imparts skills to address the emerging challenges in Biosecurity and Pesticide Management. The programme is open for Graduates in Agriculture/Horticulture and Post Graduates in Life Sciences.

### Agro-Ecosystem Analysis (AESA) & Ecological Engineering

Globally IPM practices underwent several improvements and over the years AESA has gained universal recognition and acceptance. AESA takes into account the intricate interdependence among various components of an ecosystem, particularly the dynamics of pests and defenders. AESA also enlists farmers participation in decision making, based on experiential learning through Farmers Field Schools. The programmes also provide insights to the emerging field of ecological engineering for pest management.

## Plant Biosecurity & Incursion Management

Significance of Pest Risk Analysis, Pest Surveillance & diagnostics in biosecurity management and threats of invasive alien species in the context of globalization are highlighted in the programme, besides exposure to SPS Measures and the relevant International standards.

On-Farm Production of Biocontrol Agents & Microbial Biopesticides to Promote AESA based Plant Health Management in conjunction with Ecological Engineering for Pest Management

The programme imparts skills in Mass Production Techniques for commercially viable biocontrol agents and microbial biopesticides. The trainees will be equipped to train farmers in farm level biocontrol agent and microbial biopesticide's production. Skills for vermicomposting, production of biofertilizers including mycorrhiza and fruit fly trapes will also be imparted.

## Pesticide Management

Aims at developing expertise in pesticide formulation/residue analysis using conventional as well as modern instrumental methods of analysis. The trainees will also be exposed to good laboratory practices and NABL accreditation requirements.

## Vertebrate/Rodent Pest Management

Provides an in-depth analysis of integrated rodent pest management (RPM) that is woven around the ecology and ethology of rodents in diverse agro-ecosystems. Some programmes cater to the requirement of RPM in urban areas, to prevent spread of dreaded Zoonotic diseases such as plague, leptospirosis, scrubtyphus etc

## Plant Health Engineering

Focuses on appropriate engineering systems for pesticide application, calibration of the appliances for proper delivery regime, safe, judicious and efficacious use of pesticides. The significance of droplet size and drift in enhancing bioefficacy will be unravelled.

## Courses for Directorate of PPQ&S

Induction training programme for new recruits and transferees and refresher courses for the Officers in biosecurity and plant health management.

## Training programmes for Private/Public Sector/NGOs

Programmes in AESA based plant health management, phytosanitary treatment (M.Br./ AI P Fumigation), production protocol for Biocontrol agents and biopesticides, urban IPM, Pesticide Formulation and Residue Analysis, Instrumentation in Pesticide Analysis etc. are offered on payment basis.

## Admission to the programmes

Fee/Charges	Training duration							
	52 weeks	91 -180 days	61-90 days	31-60 days	16-30 days	8-15 days	5-7 days	upto 4 days
Course fee* (\$)	5000	3500	2500	1500	1250	750	500	250
Boarding & lodging charges								
Single occupancy (\$)	8000	5000	3500	3000	2000	75 \$ per day		
Double occupancy (\$)	6000	4000	2500	2000	1500	60 \$ per day		

\* Additional Laboratory fee for courses in Pesticide Management

I. \$ 500 for 80 days duration

II. \$ 150 for 21 days duration



## Admission to the programmes

- ✦ Foreign Governments may sponsor their officials by sending the nominations to the Director General through the Ministry of External Affairs, Government of India.

### TRAINING SCHEDULE FOR 2015-2016

#### I. Educational Programmes:

S. No.	Title of the Programme	Duration	No. of Programmes	From	To
1.	Post Graduate Diploma Programme in Plant Health Management (PGDPHM)	12 months	1	Aug, 2015	July, 2016
2.	Diploma in Plant Biosecurity, Pesticide Management, Plant Health Management etc.	06 Months	1	Aug, 2015 Feb. 2016	Jan. 2016 July, 2016
<b>Plant Biosecurity</b>					
1	Bio Security & Incursion Management (BIM)	21	3	20.07.2015 16.11.2015 08.02.2016	10.08.2015 07.12.2015 29.02.2016
2	Fundamentals of Biosecurity	06	3	20.07.2015 16.11.2015 08.02.2016	25.07.2015 21.11.2015 13.02.2016
3	Quarantine Pests: Detection and Identification	21	2	01.09.2015 31.03.2016	21.09.2015 20.04.2016
4.	Quarantine Pathogens: Seed Health Testing Methods and Molecular Diagnostic Techniques	08	2	07.09.2015 11.04.2016	14.09.2015 18.04.2016
5.	Phytosanitary Treatments (MBR& ALP)	15	2	08.06.2015 11.01.2016	22.06.2015 25.01.2016
6.	Pest Surveillance	08	3	12.10.2015 10.03.2016 18.05.2016	19.10.2015 17.03.2016 25.05.2016
7.	Emergency Preparedness & Incursion Management	06	3	04.08.2015 30.11.2015 22.02.2016	10.08.2015 05.12.2015 27.02.2016
8	FHAT (Forced Hot Air Treatment)	05	2	06.07.2015 26.10.2015	10.07.2015 30.10.2015
9	Pest Risk Analysis	05	2	06.07.2015 23.11.2015	10.07.2015 27.11.2015
10	Stored Grain Pest Detection and Identification and Phytosanitary treatments	21	2	01.06.2015 04.01.2016	22.06.2015 25.01.2016
11	Regional Plant Health System Analysis	15	1	08.12.2015	23.12.2015
12	SPS awareness programme for middle level officers	04	2	25.08.2015 15.02.2016	28.08.2015 18.02.2016
13	Workshop on Agricultural Biotechnology	3	1	08.09.2015	11.09.2015
<b>Plant Health Management</b>					
1	Crop specific Agro Ecosystem Analysis (AESAs) based Plant Health Management (PHM) in conjunction with Ecological Engineering for Pest Management in vegetables	30	1	08.12.2015	06.01.2016

S. No.	Title of the Programme	Duration	No. of Prgrammes	From	To
2	Crop specific Agro Ecosystem Analysis (AESAs) based Plant Health Management (PHM)in conjunction with Ecological Engineering for Pest Management in Rice/pulses	30	1	24.08.2015	22.09.2015
3	Fundamentals of Plant Health Management for Plant health Doctors	21	2	24.08.2015 09.02.2016	13.09.2015 29.02.2016
4.	Good Agricultural Practices	06	2	17.08.2015 25.04.2016	22.08.2015 30.04.2016
5.	Rhizosphere Engineering	06	1	05.08.2015 11.04.2016	10.08.2015 16.04.2016
6.	Agro Ecosystem Analysis (AESAs) based Plant Health Management in conjunction with Ecological Engineering for Pest Management	21	2	24.08.2015 08.12.2015	13.09.2015 28.12.2015
<b>Pesticide Management</b>					
1.	Calibration of glassware and Laboratory Equipment – Pesticide Formulation Analysis / Quality control	08	02	14.07.2015 03.06.2016	21.07.2015 10.06.2016
2.	Pesticide Formulation Analysis	66	03	10.08.2015 03.11.2015 23.02.2016	14.10.2015 07.01.2016 28.04.2016
3	Pesticide Residue Analysis	30	02	15.09.2015 19.01.2016	14.10.2015 17.02.2016
4	Method validation in Pesticide Formulation Analysis and Measurement of Uncertainty	06	02	12.10.2015 23.12.2015	17.10.2015 28.12.2015
5	Method validation in Pesticide Residue Analysis and Measurement of Uncertainty	06	01	16.05.2016	21.05.2016





## Facilities

- Accommodation : Air Conditioned Rooms with Wi-Fi & Entertainment facilities.  
 Library : Enriched with collection of journals and books of National and International repute.  
 Audio-Visual-Aids : The lecture rooms are equipped with modern audiovisual facilities.  
 ICT : Internet/Wi-Fi facility is provided to the participants.  
 Medical Assistance : A senior Medical Consultant visits the Hostel daily.

## How to Reach NIPHM

Hyderabad International Airport is located about 15kms from NIPHM.

## Transport Arrangement

Airport pickup and drop will be arranged if travel plan is provided well in advance.

## Route Map

Visit the Institute Website : <http://niphm.gov.in>

## Hyderabad Weather

Hyderabad enjoys a fairly moderate weather throughout the year. During summer months (March–May) the average temperatures hover around 39° C. The rainy season (June–September) is fairly long and receives good amount of rainfall. During winter (October–February) the day temperature will be between 22-28° C and minimum temperatures will be in the range of 6° C to 14° C.

## Contact Details

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 Visit us at : <http://niphm.gov.in>



## International Training Programmes



For training programmes dates, schedule & details please visit: <http://niphm.gov.in> or email at [niphm@nic.in](mailto:niphm@nic.in)