

**REPORT ON**  
**KISAN GOSHTI (किसान गोष्ठी)**  
**PROGRAMME**  
**ORGANIZED BY**  
**NATIONAL INSTITUTE OF**  
**PLANT HEALTH**  
**MANAGEMENT, HYDERABAD**  
**ON THE EVE OF**  
**AAZADI KA AMRUTH**  
**MAHOTSAV – 75 YEARS OF**  
**INDEPENDENCE**

**Report on  
Kisan Goshti (किसान गोष्ठी) programme  
Organized By  
National Institute of Plant Health Management, Hyderabad  
On the eve of Aazadi ka Amruth Mahotsav – 75 years of Independence**

In accordance with directions received from Ministry, a proposal to conduct Kisan Goshti was mooted to Competent Authority. Accordingly, the following programmes were approved and conducted. All the programmes were conducted successfully under the guidance of the Director General, Dr. Sagar Hanuman Singh IPoS.

Division	Date	Topic	Conducted for	No. of Participants
<b>PHE&amp;PMD</b>	19-05-2021	Pesticide Application Techniques & Safe Disposal of Containers (कीटनाशक अनुप्रयोग तकनीक और कंटेनरों का सुरक्षित निपटान)	Farmers of Sitapur, Uttar Pradesh	59
<b>PHM</b>	20-05-2021	Biological control and its importance in agriculture	Farmers of Tamil Nadu (Online Mode)	98
<b>PHE</b>	20-05-2021	Precautions and procedures for beehive management during rainy season (തേനീച്ച വളർത്തൽ പരിശീലന പരിപാടി)	For farmers of Kasaragod, Kerala (Online Mode)	38
<b>PHM</b>	20-05-2021	Integrated Pest Management in Horticultural Crops	For farmers of Nalgonda, Telangana (Physical Mode)	25
<b>PHE</b>	21-05-2021	Protected Cultivation-Design, Management and Pest & Disease Control (സംരക്ഷിത കൃഷി-രൂപകൽപ്പന, പരിപാലനം, കീടരോഗ നിയന്ത്രണം)	For farmers of Thiruvananthapuram, Kerala (Online Mode)	97
<b>VPM (PBD)</b>	21-05-2021	Vertebrate Pest Management	For farmers of Warangal, Telangana (Online Mode)	24
<b>PHE</b>	21-05-2021	Maintenance and Use of Drip and Sprinklers (ड्रिप एवम स्प्रींकलर के रखरखाव एवम उनके उपयोग)	For farmers of Chhattisgarh (Online Mode)	15
<b>PBD</b>	21-05-2021	Management of fruit flies in orange, mango, guava and sweet lime	For farmers of Mandsaur, Madhya Pradesh (Online Mode)	42
<b>Total</b>				<b>398</b>

**Convenors and coordinators**

**Overall Convenor: Dr. Sagar Hanuman Singh IPoS, Director General**

S No	Programme title	Date	Convenor	Coordinator
1	Pesticide Application Techniques & Safe Disposal of Containers	19-05-2021	Dr. Anand Singh, Sr. Scientist & Head, KVK 2, Sitapur Dr. Vidhu Kampurath P, Joint Director, PHE, NIPHM Dr. Nirmali Saikia, Joint Director, PMD, NIPHM	Dr. Daya Shankar Srivastava, Scientist (PP), KVK 2, Sitapur Er. Sk Haneefa Begum, ASO (PHE), NIPHM Ms. Sridevi T, SO (PMD), NIPHM

2	Biological control and its importance in agriculture	20-05-2021	Dr. J. Alice R.P Sujeetha, Director i/c (PHM), NIPHM	Dr. S. Jesu Rajan, Scientific Officer (Entomology), NIPHM
3	Precautions and procedures for beehive management during rainy season	20-05-2021	Dr. Vidhu Kampurath P, Joint Director, PHE, NIPHM	Dr. Manoj Kumar T S, Head, ICAR-KVK, CPCRI
4	Integrated Pest Management in Horticultural Crops	20-05-2021	Dr. J. Alice R.P Sujeetha, Director i/c (PHM), NIPHM	Dr. Narsi Reddy, Assist Scientific Officer, NIPHM
5	Protected Cultivation-Design, Management and Pest & Disease Control	21-05-2021	Dr. Vidhu Kampurath P, Joint Director, PHE, NIPHM Dr. Binu John Sam, Sr. Scientist & Head, Mitraniketan KVK (ICAR)	Er. Chitra G, SMS (Ag Engg), Ms. Bindhu R Mathews, SMS (Plant Protection), Mitraniketan KVK (ICAR)
6	Vertebrate Pest Management	21-05-2021	Dr. J. Alice R.P Sujeetha, Director (PBD), NIPHM	Shri. A. Mariadoss, Asst. Director, NIPHM Dr. P. Sakthivel, Assist. Scientific Officer (VPM), NIPHM
7	Maintenance and Use of Drip and Sprinklers	21-05-2021	Sh. Jitendra Thakur, Sr. Agricultural Development Officer, Dist Bemetara CG Er. Udayabhanu M, Scientific Officer, PHE, NIPHM	Er. Govind Kumar Maurya, Asst. Scientific Officer, PHE, NIPHM
8	Management of fruit flies in orange, mango, guava and sweet lime	21-05-2021	Dr. J. Alice R.P Sujeetha, Director (PBD), NIPHM	Shri. A. Mariadoss, Asst. Director, NIPHM Dr. G.S.Chundawat, Sr. Scientist & Head, KVK, Mandasaur, Madhya Pradesh

**Programme 1: Date – 19<sup>th</sup> May 2021, 02.00 – 04.00 PM**

**Title: Pesticide Application Techniques & Safe Disposal of Containers**

PHE & PMD divisions of NIPHM jointly conducted an online farmer interaction programme on “Pesticide Application Techniques and Safe Disposal of Containers” in association with KVK-2, Sitapur, Uttar Pradesh on 19<sup>th</sup> May 2021. Total fifty-nine farmers (57 male & 2 female) attended the programme. Er. Sk Haneefa Begum, ASO(PHE) with the help of Dr. Daya S Srivastava, Scientist (PP), coordinated this programme.

Dr. Anand Singh, Sr. Scientist/ Head, KVK gave the welcome address. He narrated the good association with NIPHM for knowledge sharing and field related issues. Dr. Vidhu Kampurath P, JD (PHE) introduced the programme and emphasized the need of the topic to the farmers group.

First session on “Pesticide Application Techniques” was taken by Er. Sk Haneefa Begum, ASO (PHE). In this session, the farmers were explained about the good spraying practices of when to spray, how to spray, and direction of spray in detail. Farmers were given with details of various user-friendly equipment that can be used for effective spraying in the field. The farmers were also briefed about the types of nozzles and the importance in selecting a nozzle. They were also explained how to calibrate a nozzle to know its wear and tear.

Second session, “Safe Disposal of Containers” was taken by Mrs. T Sridevi, SO (PMD). In this session, farmers were explained with different approved pesticides and compatibility of the chemicals and insecticide rules. Reading the label of containers and time importance of spraying also was explained in detail. The safe disposal methods of containers after the use of pesticides were also explained to farmers. Queries from farmers were addressed. The whole programme was conducted in Hindi.


किसान गोष्ठी

## कीटनाशक अनुप्रयोग तकनीक और कंटेनरों का सुरक्षित निपटन

Pesticide Application Techniques & Safe Disposal of Containers

Wednesday, 19 May, 2021, 2:00 – 4:00pm

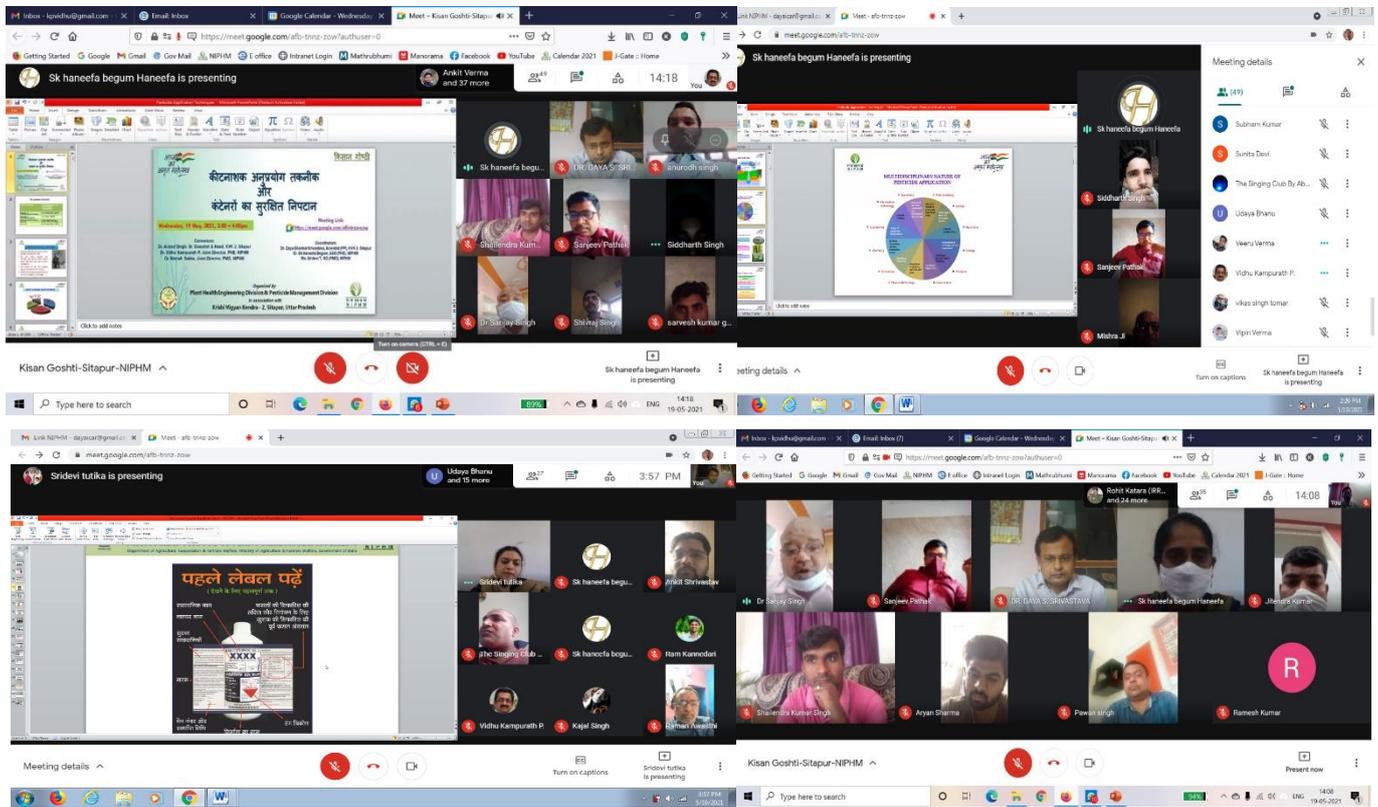
**Convenors:**  
 Dr. Anand Singh, Sr. Scientist & Head, KVK 2, Sitapur  
 Dr. Vidhu Kampurath P, Joint Director, PHE, NIPHM  
 Dr. Nirmali Saikia, Joint Director, PMD, NIPHM

**Meeting Link:**  
<https://meet.google.com/afb-tmzx-zow>

**Coordinators:**  
 Dr. Daya Shankar Srivastava, Scientist (PPI), KVK 2, Sitapur  
 Er. Sk Haneefa Begum, ASO (PHE), NIPHM  
 Ms. Sridevi T. SO (PMD), NIPHM

Organized by  
**Plant Health Engineering Division & Pesticide Management Division**  
 in association with  
**Krishi Vigyan Kendra - 2, Sitapur, Uttar Pradesh**





## **Programme 2: Date – 20<sup>th</sup> May 2021**

### **Title: Farmer's training and interaction on 'Biological control and its importance in agriculture'**

The training cum interaction session on 'Biological control and its importance in agriculture' conducted on 20<sup>th</sup> May, 2021 through online mode by NIPHM. A total of 98 participants from different districts of Tamil Nadu have attended in this program. The training was conducted in Tamil language. The inaugural address and brief introduction about the online training program was given by Director PHM and lecture was handled by Dr. S. Jesu Rajan, Scientific Officer (Entomology). In the training, importance and field application techniques of different biological control agent's viz., parasitoids, predators, entomopathogenic fungus, entomopathogenic nematodes, biopesticides (*Trichoderma* & *Pseudomonas*) and biofertilizers were explained to the farmers and also interacted with farmers related to on-farm techniques of biocontrol agents and field application methods. Finally Dr. Veerasami, Senior Consultant, NIPHM had proposed vote of thanks.

आजदी का अमृत महोत्सव

किसान गोष्ठी

Farmer interaction on  
**BIOLOGICAL CONTROL AND ITS IMPORTANCE IN AGRICULTURE**

விவசாயிகளுடன் ஒரு கலந்துரையாடல்  
வேளாண்மையில்  
உயிரியல் கட்டுப்பாட்டு காரணிகளின் பங்கு

Convenor  
Dr. J. Alice R.P Sujeetha  
Director (PHM)

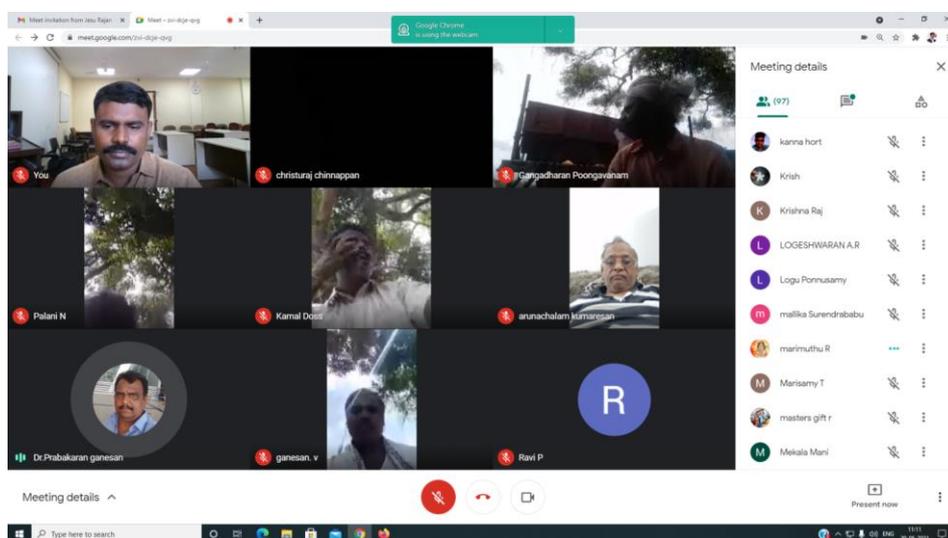
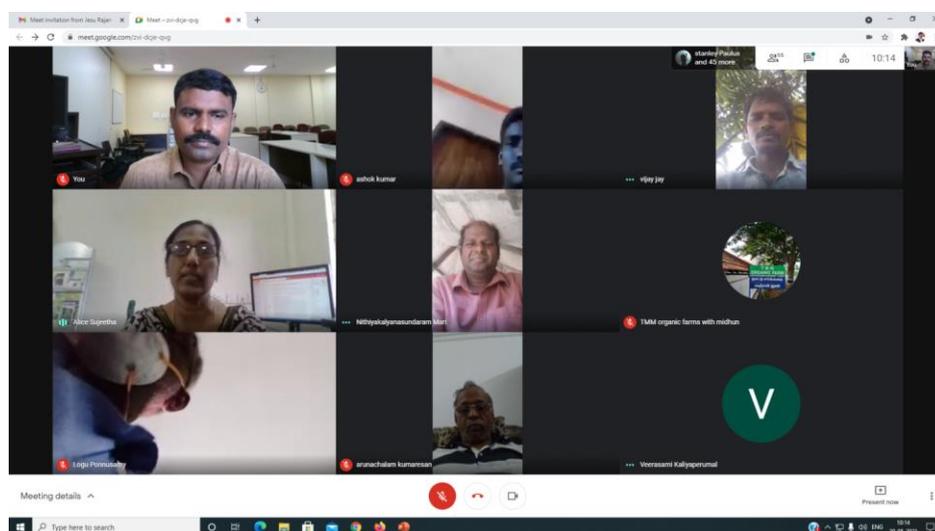
Date: 20<sup>th</sup> May, 2021  
Time: 10.00 to 12.00

Coordinator  
Dr. S. Jesu Rajan  
Scientific Officer (Entomology)

Meeting link: <https://meet.google.com/zvi-dcje-qvg>

**National Institute of Plant Health Management**  
Department of Agriculture, Cooperation & Farmers Welfare  
Ministry of Agriculture & Farmers Welfare, Government of India  
Rajendranagar, Hyderabad 500 030





**Programme 3: Date – 20<sup>th</sup> May 2021, 02.00 – 04.00 PM**

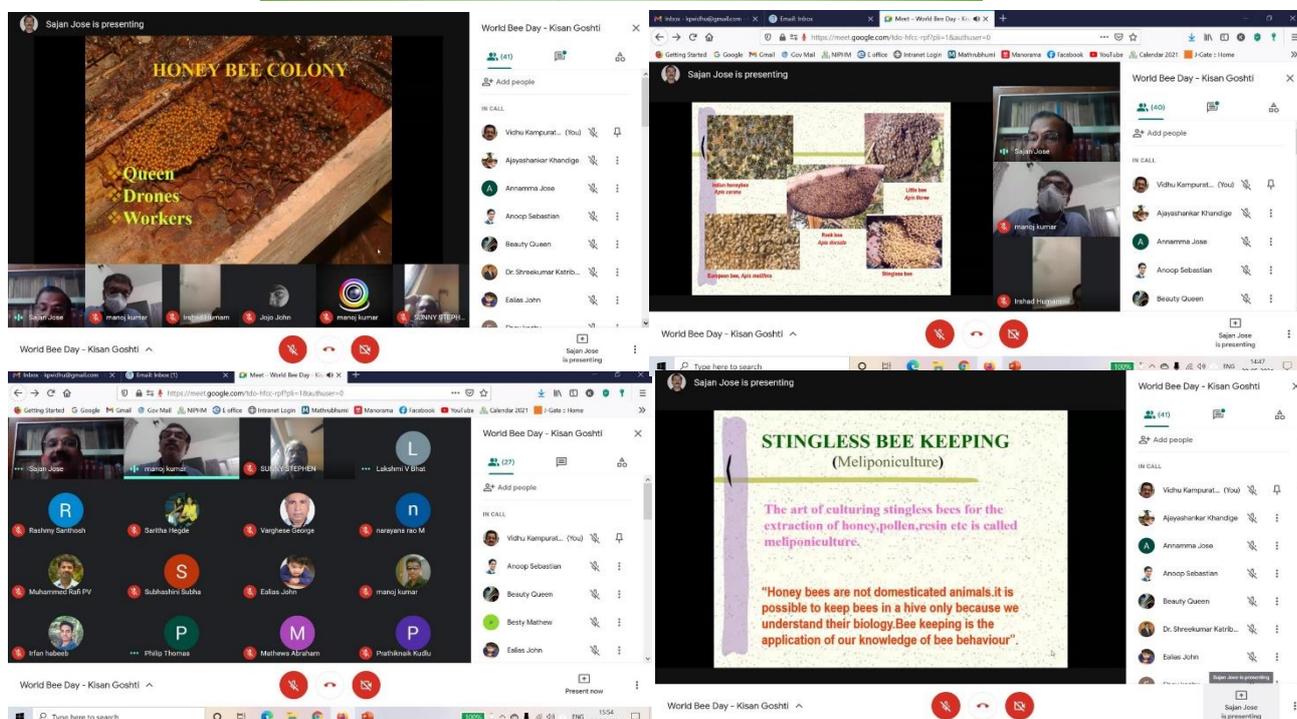
**Title: Precautions and procedures for beehive management during rainy season**

On the eve of World Bee Day, on 20<sup>th</sup> May 2021, a training cum interaction session was convened for farmers of Kerala on precautions and procedures for honeybee hives during rainy season, in collaboration with ICAR - Krishi Vigyan Kendra, CPCRI, Kasaragod, Kerala. Dr. Sajan Jose K., Subject Expert, Rubber

Board led the class. The speaker, who obtained his doctoral degree for the work on stingless bee of Kerala, is also a bee farmer who maintains 250 colonies of Indian bees.

The programme was introduced by Dr. Vidhu Kampurath, JD, NIPHM with an elaboration on why Bee Day is being organized across the globe. Nearly 90% of the world's wild flowering plant species depend, entirely, or at least in part, on animal pollination, along with more than 75% of the world's food crops and 35% of global agricultural land. Not only do pollinators contribute directly to food security, but they are key to conserving biodiversity. To raise awareness of the importance of pollinators, the threats they face and their contribution to sustainable development, the UN designated 20 May as World Bee Day.

The expert on his lecture emphasised the detailed procedure to raise the beehives with low-cost technologies and the precautionary measures needed during rainy season. The method of extraction of honey in an effective way, possible methods to multiply the hives effectively etc were highlighted. More concentration was on stingless bees as they are more easily managed and low cost in nature. All the queries related to the subject were answered. The session was attended by 38 farmers. The Head, KVK, Dr. Manoj Kumar TS, thanked the attendees.



#### **Programme 4: Date – 20<sup>th</sup> May 2021**

#### **Title: Integrated Pest Management in Horticultural Crops (Physical mode)**

Conducted interactive session with farmers at Nalgonda, association with F3 - Farmer Producing company Ltd. For this programme 25 Progressive farmers and Mandal Horticulture officer and NABARD AGM attended.

The following topics were discussed in this interactive session.

1. IPM tools in horticultural crops
2. Biocontrol (Predators and Parasitoids) agents in horticultural crops
3. *Trichoderma* and *Pseudomonas* uses in horticultural crops
4. Role of Mycorrhiza in horticultural crops
5. Fruit fly lure preparation and fruit fly management
6. Ecological engineering methods in horticultural crops



### **Programme 5: Date – 20<sup>th</sup> May 2021**

### **Title: Protected Cultivation-Design, Management and Pest & Disease Control**

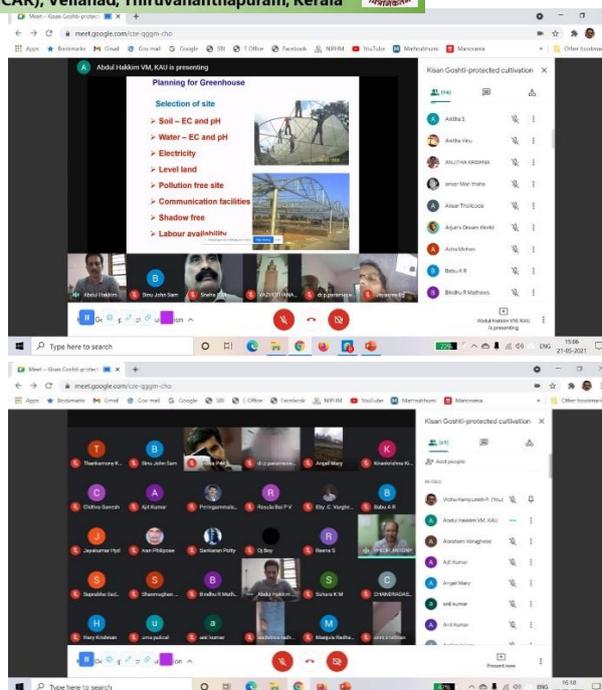
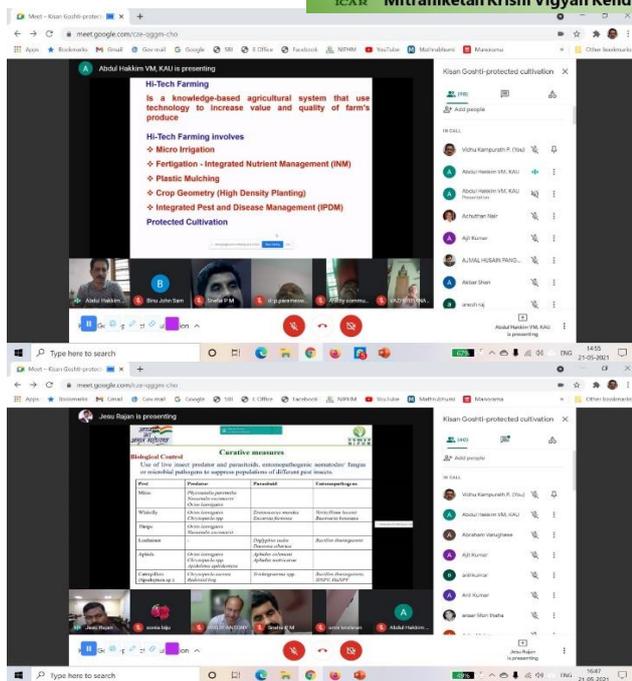
A farmer interaction programme on protected cultivation was organized on the eve of *Aazadi ka Amruth Mahotsav* – 75 years of Independence, by PHE division of NIPHM. The programme was organized in collaboration with Mitranikethan Krishi Vigyan Kendra (ICAR), Thiruvananthapuram. Two expert lectures were organized in the event. The basic construction details of various structures used for protected cultivation, their maintenance issues and solutions etc. were detailed by Dr. Abdul Hakkim V M., Professor of College of Agriculture, Padannakad, Kerala. The insects and pest issues and their remedies were then taken up by Dr. Jesurajan, Scientific Officer, NIPHM. A total of 97 farmers attended the programme.

The interaction was initiated by Dr. Vidhu Kampurath, JD, NIPHM. The participants and experts were welcomed by Dr. Binu John Sam, Sr. Scientist & Head, Mitraniketan KVK (ICAR). The programme was conducted in Malayalam and English languages.

Dr. Hakkim explained the various designs of greenhouses. The peculiar climate of humid tropical nature of Kerala is not suitable for greenhouses, he explained. However, rain shelters can be effectively constructed at land or on terrace to get all benefits of protected cultivation. The rain shelters may not provide complete protection from all the insects and pests, but they will certainly provide a reasonable income if proper selection of site, materials and crop are done inside the shelters.

A detailed explanation of various pest and diseases that are common in greenhouses were narrated by Dr. Jesurajan. He provided information on various biocontrol agents that are effective in controlling the pests in protected cultivation. The bigger threat of nematodes inside the greenhouses also were discussed.

There were numerous queries from the participants on various issues related to protected cultivation. All the questions were answered by the experts. Er. Chitra, SMS of KVK thanked the audience.



**Programme 6: Date – 21<sup>st</sup> May 2021  
Title: Vertebrate Pest Management**

As part of Krish Goshti, an online training cum interaction session was held on 21.05.2021 for the farmers of Warangal district, Telangana. The participants were in rice, banana, and vegetable farmers of Warangal district. The training was conducted in Telugu language. In the training, economic importance of vertebrates (rodents, wild boar and monkeys), their biology, damage symptoms, losses and its managements through by adopting integrated approaches including the use of bioacoustics and monkey guns were explained to the farmers. The session was inaugurated by Director (PB) and welcome address was given by Shri. A. Mariadoss, Asst. Director. Dr. P. Sakthivel had proposed vote of thanks. The farmers interacted with scientists at the end of the session and appreciated NIPHM for providing such a useful session of vertebrate management which is the need of the hour.



आज की  
अमृत महोत्सव



# Interactive Session on Vertebrate Pest Management

for the farmers of Warangal Dist, Telangana  
on Friday, 21 May, 2021, 12:00 - 13:00

Meeting Link : <https://meet.google.com/pxu-rsai-cvw>

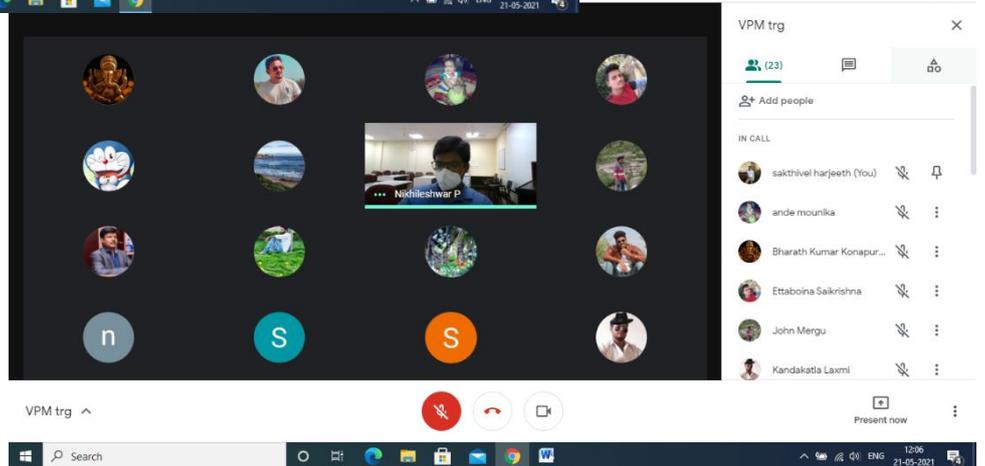
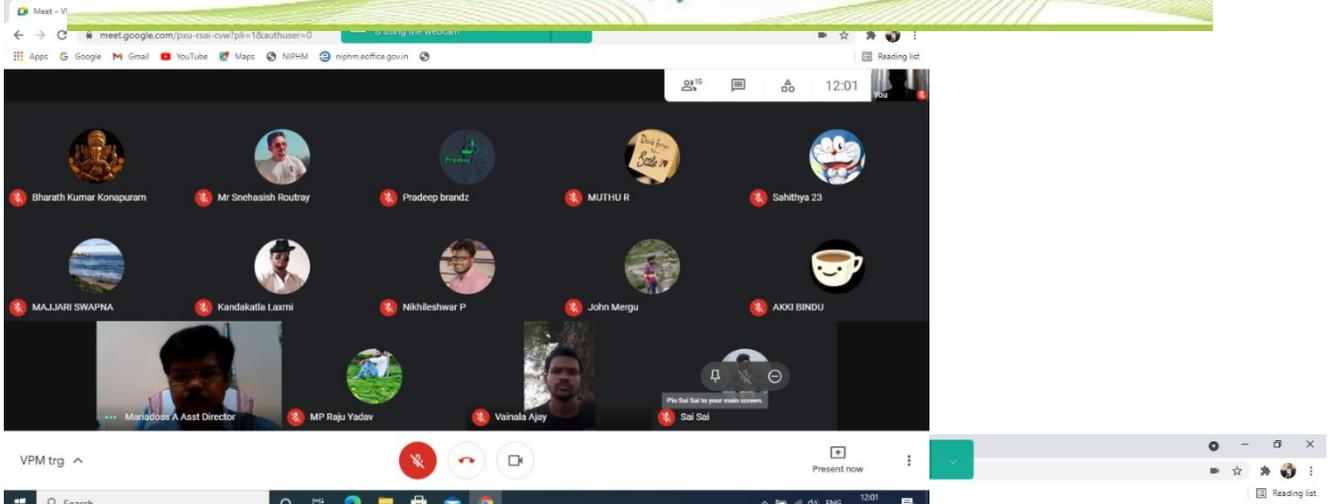
Convenor:  
Dr. J. Alice R.P. Sujeetha  
Director (Plant Biosecurity)



Coordinators:  
Shri. A. Mariadoss - Asst. Director (RPM)  
Dr. P. Sakhivel - Asst. Scientific Officer (VPM)

## National Institute of Plant Health Management

Department of Agriculture, Cooperation & Farmers Welfare  
Ministry of Agriculture & Farmers Welfare  
Government of India, Hyderabad - 500030



7. మొగ్గలిటీ (వలస వెళ్లడం)
  8. రోడ్డిస్టైడె రెసిస్టెన్సు
  9. రేపరోడ్యూక్టీవ్ బౌంసింగ్
- (ప్రత్యుత్పత్తి ని విఫలం చేస్తున్నదం)



• Normal



• Abnormal

## Programme 7: Date – 21<sup>st</sup> May 2021, 01.00 – 02.30 PM

### Title: Maintenance and Use of Drip & Sprinklers

One day online “Kisan Gosthi cum training” on “Maintenance and Use of Drip & Sprinklers” was conducted to Block Saja Bametera district of Chhattisgarh State farmers with the association with Sh Jitendra Thakur, SADO, Bametera, Chhattisgarh. Total 15 farmers attended the program. Er Govind Kumar Maurya, ASO-PHE, who coordinated the programme, advised the farmers on different aspects such as Importance of timely irrigation, types of efficient irrigation methods for different crops, Micro irrigation such as drip irrigation, sprinkler irrigation, rain guns and their maintenance.

At first, Importance of Irrigation, purpose of irrigation, advantages of irrigation, Harmful effects of irrigation if not done properly, Suitable time for Irrigation were explained to farmers. Then types of Irrigation methods were detailed. When we are using traditional irrigation Methods, lot of water is getting wasted, which is not required by a plant. So as to minimize wastage of water, one of the alternate technologies is micro-irrigation. Drip irrigation, sprinkler irrigation and Rain Guns are methods of Micro irrigation. Components of Drip Irrigation unit were briefly explained such as main, sub main, laterals, pumping unit, Filters, distribution lines, filters etc.

A brief explanation of Sprinkler Irrigation was given to farmers. Advantages of sprinkler irrigation unit were also explained. Components of sprinkler Irrigation unit such as pumping unit, pipe network-mains, sub mains, laterals and sprinkler head, filters, couplers, valves, risers, bends are explained to the farmers. The programme was organized on the eve of Aazadi ka Amruth Mahotsav – 75 years of Independence, by the Plant Health Engineering Division of NIPHM. Er. Udayabhanu, SO (PHE) convened the programme and Er. Govind Maurya, ASO (PHE) coordinated the programme. The whole programme was conducted in Hindi.

The banner features the Indian national flag and the text 'आजदी का अमृत महोत्सव' (Azadi Ka Amrit Mahotsav). The main title is 'द्विप एवम स्पिंकलर के रखरखाव एवम उनके उपयोग' (Drip and Sprinkler Maintenance and Use). Below it, the English title reads 'Farmer Interaction on Maintenance and Use of Drip and Sprinklers'. The convenors listed are Sh. Jitendra Thakur, Sr. Agricultural Development Officer, Dist Bametera CG; Er. Udayabhanu M, Scientific Officer, PHE, NIPHM; and Er. Govind Kumar Maurya, Asst. Scientific Officer, PHE, NIPHM. The meeting link is <https://meet.google.com/dfk-xbvy-gew>. The event is scheduled for Friday, 21 May, 2021, from 1:00 to 2:30pm. The organizing body is the Plant Health Engineering Division, NIPHM, Hyderabad, in association with the Department of Agriculture, Bemetara Dist, Chhattisgarh.

This screenshot shows a Google Meet session with a presentation slide titled 'ACID AND CHLORINE TREATMENT IN DRIP IRRIGATION SYSTEM'. The slide includes a photograph of a drip irrigation system in a field. The presenter is Er. Govind K Maurya, Asst. Scientific Officer, PHE, NIPHM. The meeting interface shows a grid of participants' video feeds.

This screenshot shows a Google Meet session with a presentation slide titled 'Advantages of DRIP'. The slide lists several benefits: Efficient Water Management (Water saving by 30-70% depending on the crop), Additional area can be brought under irrigation with the available water resources, High WUE (water losses are minimized), Uniform supply of the water to all the plants, Saving in energy (42-65%) for pumping water, and Less weed growth (30-70%). The meeting interface shows a grid of participants' video feeds.

This screenshot shows a Google Meet session with a presentation slide titled 'RAINPORT SPRINKLER RANGE'. The slide displays various types of sprinkler heads and their components. The meeting interface shows a grid of participants' video feeds.

This screenshot shows a Google Meet session with a presentation slide titled 'Management of Saline Water by drip'. The slide includes a diagram of a drip irrigation system and a color-coded map showing salinity levels. The meeting interface shows a grid of participants' video feeds.

## Programme 8: Date – 21<sup>st</sup> May 2021

### Title: Management of fruit flies in orange, mango, guava and sweet lime

As part of Krish Goshti, an online training cum interaction session was held on 21.05.2021 for the farmers of Mandsaur district, Madhya Pradesh. The participants were in orange, mango, guava and sweet lime farmers of Mandsaur district. The training was conducted in Hindi language. In the training, importance of fruit flies, their biology, damage symptoms, crops affected, management of fruit flies through integrated approaches, preparation of low-cost fruit fly trap and lures were explained to the farmers. The session was inaugurated Director (PB) and lecture was handled by Shri. A. Mariadoss, Asst. Director. Dr. G.S. Chundawat had proposed vote of thanks. The farmers appreciated NIPHM for providing such a useful session of fruit fly management which is the need of the hour and they also informed that they will request NIPHM to supply fruit fly lures.

**Bharat Ka Amrit Mahotsav**  
75 Years of India's Independence

**Webinar for farmers on**  
संतरा, नींबू, ककड़ी, एवम अमरूद आदि फसलों में फल मक्खी एवम उसका प्रबंधन

दिनांक : 21.05.2021 समय: 10 बजे से 11:30 बजे तक

प्रतिभागी: मंदसौर (मध्य प्रदेश) के किसान  
मुख्य प्रवक्ता

•श्री ए. मारियाडोस, सहायक निदेशक, NIPHM, हैदराबाद  
•डॉ. जी. एस. चुंदावत, बैज्ञानिक, कृषि विज्ञान केंद्र, मंदसौर (मध्य प्रदेश)

लिंक: <https://meet.google.com/fwm-bhbq-bzj>

Convenor:  
Dr. J. Alice R.P.Sujeetha, Director (PBD)

Coordinators:  
Shri. A. Mariadoss, Asst. Director  
Dr. G.S. Chundawat, PC, KVK, Mandsaur, MP

राष्ट्रीय वनस्पति स्वास्थ्य प्रबंधन संस्थान  
कृषि, सूक्ष्मजीव एवं किसान कल्याण विभाग, कृषि एवं किसान कल्याण मंत्रालय - भारत सरकार

**NATIONAL INSTITUTE OF PLANT HEALTH MANAGEMENT**  
Department of Agriculture, Cooperation & Farmers Welfare, Ministry of Agriculture & Farmers Welfare, Government of India

रा व स्व प्र सं NIPHM

Meeting details

44

Dinesh Sethiya  
Dr.G.S. Chundawat  
Dr.G.S. Chundawat  
harif Khan  
Harisha Sharma  
Jagdish chandra beraji  
Jankilal patidar  
Jayant Jayant

Meeting details

Turn on captions Present now

21/05/2021 10:10

Meeting details

44

Mariadoss A Asst... (You)  
Alice Sujeetha  
Anand Singh Rathore  
Ashish Ashi Patel  
Bhanujal Patidar  
Dushrath Nandan Parodiya  
DHIRAJ KUMAR  
Dinesh Sethiya

Meeting details

Turn on captions Present now

21/05/2021 10:10

**लक्षण**

- मादा फलमक्खी फलभीति के नीचे समूह में अंडे देती है !
- अंडे देने के लिए महीन छिद्र बनती है जो फलभीति पर दिखाई देते हैं ! इन छिद्रों से तरल पदार्थ रिसता हुआ दिखाई देता है !
- अंडों से लार्वा बनने के बाद, लार्वा फलों के गूदे को खाते हैं जो बाहर से नहीं दिखाई देता।

**Bharat Ka Amrit Mahotsav**  
75 Years of India's Independence

संतरा, नींबू, ककड़ी, एवम अमरूद आदि फसलों में फल मक्खी एवम उसका प्रबंधन

ए. मारियाडोस, सहायक निदेशक

रा व स्व प्र सं NIPHM