



INSTITUTE OF FOREST BIODIVERSITY (IFB), HYDERABAD

Dec 08th & 09th, 2020

A Report on Two Days Training Programme on Integrated Pest and Disease Management (IPDM) for Scientists

Two days training programme on “**Integrated Pest and Disease Management for Scientists**” was conducted from 08th & 09th December, 2020 through virtual platform by IFB, Hyderabad for Scientists of ICFRE and its institutes.

Dr. Deepa M, Scientist-D, was the Course Co-ordinator.

Dr. S. J. Rehaman, Professor, PJTSAU, Hyderabad, Dr. Rajasri M, Professor, SVAC, Tirupati, Dr. S. Ameer Basha, Associate Professor, CoA, Hyderabad, Dr. Praveen Kumar, Scientist-D, RSRS, Hyderabad, Dr. M. Prabhakar Rao, Principal Scientist, CRIDA, Hyderabad, Dr. M. Srinivasa Rao, Principal Scientist, CRIDA, Hyderabad, Dr. N.B.V. Chalapathi Rao, Principal Scientist, HRS, Hyderabad and Dr. S. Desai, Principal Scientist, CRIDA, Hyderabad were kind enough to participate as the Resource Persons. For the training program Thirteen Scientists across the ICFRE institutes were nominated by honorable DG, ICFRE. A total of twenty-eight officials from ICFRE Institutes participated in the programme.

The training program module was designed to focus on long term prevention of pests or their damage through combination of techniques and with this IPDM you take actions to

keep pests from becoming a problem because for farmers IPDM is the best combination of cultural, biological, and chemical measures to manage insect, disease, weeds and other pests. IPDM does not have any rigid criteria. It is a flexible system that makes good use of local resources, latest research, technology, knowledge and experiences, so keeping this in mind we are planned to share all the above that it can be useful to them.

A brief warm welcome address was given by Dr. Ratnaker Jauhari, IFS, Director, IFB to all the participants on the importance of training program.

Shri A. S. Rawat, DG, ICFRE in his inaugural address called upon the delegates and briefed on the necessity of the training program particularly IPM involves consideration of all available pest control techniques and subsequent integration of appropriate measures that discourage the development of pest population and keep pesticides and other interventions to levels that are economically justified and reduce or minimize risks to human health and the environment. Biological control, it is considered as most appropriate method for forest pest control using parasitoids, predators and fungi, virus and bacteria and he has briefed about Impact of climate change on insect pests because as we all know that disease causing organisms and pests life cycle depends on different weather factors and any variation in these factors ultimately affect the damage caused by them and lastly he has supported Dr. Ratnaker Jauhari, IFS, Director, IFB and his team for planning this IPDM training programme under HRD plan.

Shri R. M. Dobriyal, IFS, PCCF, Vice Chairman & Managing Director, Telangana Forest Development Corporation, Hyderabad has also delivered his address regarding the training program and IFB activities etc.

The programme key note address was delivered by Shri Pravin H. Chawhaan, Scientist-G, GCR, IFB, Hyderabad and briefed about the importance of pest and disease



management especially in forestry sector. IFB-Hyderabad also had some projects on biocontrol agents and botanical pesticides against some major insect pests of Telangana and mass multiplication of the laboratory produced trichocards was used for field release against teak defoliator and teak skeletonizer revealed significant variation and also said that biological control is most appropriate to control forest pest control. Finally, he thanked to all experts and participants for joining the sessions and he supported whole heartily Dr. Deepa M, Entomologist, Course coordinator for her efforts in preparation of this training programme.

Dr. Deepa M., Scientist-D, Course Co-ordinator has thanked the Shri A. S. Rawat, Director General (DG), ICFRE, Shri R. M. Dobriyal, IFS, PCCF, Vice Chairman & Managing Director, Telangana Forest Development Corporation and ADG (E & RB), ICFRE for sponsoring the programme. She then introduced the program and explained overview of the training course and the importance of Integrated Pest and Disease Management in forestry sector and various research projects. She also thanks Director, IFB for his guidance and support.

Day-1

Session-1:

Dr. S. J. Rehaman, Professor, PJTSAU, Hyderabad Resource person, delivered a presentation on Biological control with regulatory approach. The presentation was followed by discussion session; Dr. S. J. Rehaman, have also clarified the queries raised by the participants.

Session-2:

Dr. Rajasri M, Professor, SVAC, Tirupati initiated the next session and delivered a presentation on Recent advances in insect pest management. The presentation was followed by discussion session; Dr. Rajasri M, have also clarified the queries raised by the participants.

Session-3:

Dr. S. Ameer Basha, Associate Professor, CoA, Hyderabad initiated the third session and delivered a presentation on Approaches for plant disease diagnosis and its management. The presentation was followed by discussion session Dr. S. Ameer Basha have also clarified the queries raised by the participants.

Session-4:

Dr. Praveen Kumar, Scientist-D, RSRS, Hyderabad initiated the fourth session and delivered a presentation on Tasar silkworm host plants pests and their management. The presentation was followed by discussion session; Dr. Praveen Kumar have also clarified the queries raised by the participants.

In the end of day, a review session was conducted on day-1 presentations and day-2 activities.

Day-2

Dr. Deepa M, Scientist-D, Course Co-ordinator has initiated the session with Recap of previous day sessions and discussed the clarified the queries raised by the participants.

Session-1:

Dr. M. Prabhakar Rao, Principal Scientist, CRIDA, Hyderabad has initiated the session and delivered a presentation on Remote sensing & GIS for crop health management. The presentation was followed by discussion session; Dr. M. Prabhakar Rao have also clarified the queries raised by the participants.

Session-2:

Dr. M. Srinivasa Rao, Principal Scientist, CRIDA, Hyderabad initiated the next session and delivered a presentation on Impact of climate change on insect pests and prediction of pest scenarios. The presentation was followed by discussion session; Dr. M. Srinivasa Rao have also clarified the queries raised by the participants.

Session-3:

Dr. N.B.V. Chalapathi Rao, Principal Scientist, HRS, Hyderabad initiated the next

session and delivered a presentation on IPM on horticulture insects pests in Telangana. The presentation was followed by discussion session; Dr. N.B.V. Chalapathi Rao have also clarified the queries raised by the participants.

Session-4:

Dr. S. Desai, Principal Scientist, CRIDA, Hyderabad initiated the next session and delivered a presentation on Disease dynamics in forest Ecosystem. The presentation was followed by discussion session; Dr. S. Desai have also clarified the queries raised by the participants.

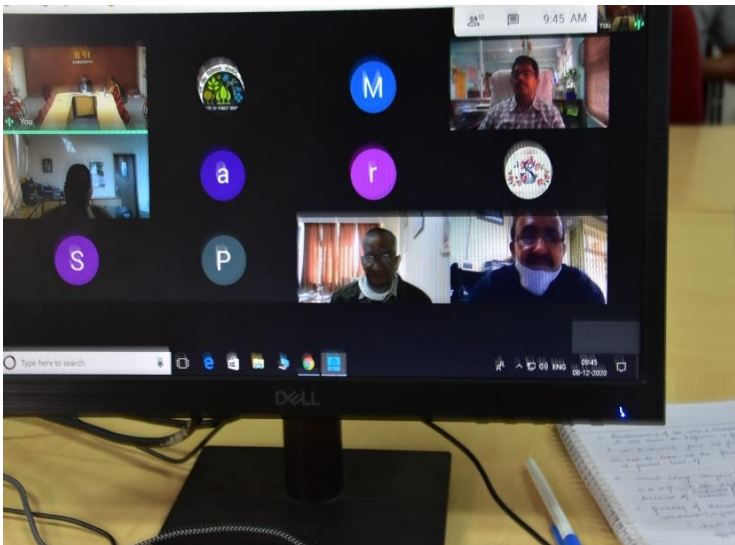
In the validation session, Shri Pravin Chawhaan, Scientist-G & GCR, IFB held discussions with the trainees. All participants have opined that the training helped them very fruitfully. However, Shri Pravin Chawhaan highlighted delivered topics details that Extensive insect or disease spread cannot be detected by conventional means in deep forests. It becomes time consuming and costly when pathogen or insect populations reach epidemic levels. Remote sensing provides a timely and accurate approach to scale up field measurements. In IPM biological control means utilization of their natural enemies to control pest was also highly useful for trainees. Finally, he thanked everyone who made this training possible and he also thanked to all presenters for their presentations.

The training programme was concluded with vote of thanks by Dr. Deepa M, Scientist-D, course co-ordinator, IFB, extending thanks to the Director, IFB, ADG (E & RB), Resource persons from PJTSAU, SVAC, CoA, RSRS, CRIDA&HRS and participants for the kind support in organizing the fruitful training programme. At the end of the programme certificates were distributed to all the participants.

The training programme final inputs and suggestions were given by Dr. Rajasri M, Professor, SVAU, Tirupati and she also extending thanks to Director, IFB, course co-ordinator, ICFRE and participants for the kind support and showing interest on IPDM.

The overall programme was moderated by Shri E. Manikanta Reddy, Technician and Shri D.S.S. Prasad, Technician, IFB, Hyderabad.

Glimpses of the programme



Two days Training Programme
on
Integrated Pest and Disease Management for Scientists
(08.12.2020 & 09.12.2020)

Inaugural Session (08.12.2020)	
09:30 to 09:40 AM	Welcome Address by the Dr. Ratnaker Jauhari, IFS, Director, IFB, Hyderabad
09:41 to 09:50 AM	Inaugural address by the Shri A.S. Rawat, IFS, DG, ICFRE, Dehradun
09:51 to 10:00 AM	Address by Shri R. M. Dobriyal, IFS, PCCF, Vice Chairman & Managing Director, Telangana Forest Development Corporation, Hyderabad
10:01 to 10:10 AM	Key note address by Shri Pravin H. Chawhaan, Sc-G, GCR, IFB, Hyderabad
10:11 to 10:20 AM	Introduction of the programme by Dr. Deepa M, Scientist-D, Course-Cordinator, IFB, Hyderabad

Schedule of Training

Day-1 (08.12.2020) Tuesday

Sessions	Scheduled Time	Program details
Session I	09:30- 09:50 AM	Registration & Introduction on Training Program
Session II	09:51-10:20 AM	Overview of Training Program
Tea Break (10:10-10:20 AM)		
Session III	10:30-11:30 AM	Biological control with regulatory approach
	11:31-11:45 AM	Discussion
Session IV	11:46- 12:45 PM	Recent advances in insect pest management
	12:46-01:00 PM	Discussion
Lunch Break (01:01 PM to 02:00 PM)		
Session V	02:01- 03:00 PM	Approaches for plant disease diagnosis and its management
	03:01-03:15 PM	Discussion
Session VI	03:16- 04:15 PM	Tasar silkworm host plants pests and their management
	04:16- 04:30 PM	Discussion

Day-2 (09.12.2020) Wednesday

Sessions	Scheduled Time	Program details
Session I	09:30- 10:00 AM	Recap of previous day sessions
Session II	10: 01-11:00 AM	Remote sensing & GIS for crop health management
	11:01-11:20 AM	Discussion
11:20-11:30 AM Tea Break		
Session III	11:31-12:30 PM	Impact of climate change on insect pests and prediction of pest scenarios
	12:31-12:50 PM	Discussion
Lunch Break (12:51 PM to 01:50 PM)		
Session IV	01:51- 02:50 PM	IPM on horticulture insect pests in Telangana
	02:51-03:10 PM	Discussion
Session V	03:11- 04:10 PM	Disease dynamics in forest Ecosystems
Session VI	04:11- 04:30 PM	Discussion
04:31-04:40 PM Tea Break		
Validation Session (09.12.2020)		
04:41-04:50 PM	Validation speech by the Dr. Ratnaker Jauhari, IFS, Director, IFB, Chief Guest	
04:51-05:00 PM	Conclusion of the Programme by Shri Arul Rajan, IFS, HoO, IFB, Hyderabad	

List of Participants

Sl. No	Name & Designation	Institute
1	Shri A.S. Rawat, IFS, DG, Chief Guest	ICFRE, Dehradun
2	R. M. Dobriyal, IFS, PCCF, Vice Chairman & Managing Director	Telangana Forest Development Corporation, Hyderabad
3	Dr. Ratnaker Jauhari, IFS, Director	IFB-Hyderabad
4	Shri Pravin H. Chawhaan, Scientist-G, GCR,	
5	Dr. Deepa M, Scientist-D, Course Co-ordinator	
6	Dr. S. J. Rehaman, Professor, Resource person	PJTSAU, Hyderabad
7	Dr. Rajasri. M, Professor, Resource person	SVAC, Tirupati
8	Dr. S. Ameer Basha, Associate Professor, Resource person	CoA, Hyderabad
9	Dr. Praveen Kumar, Scientist-D, Resource person	RSRS, Hyderabad
10	Dr. M. Prabhakar, Principal Scientist, Resource person	CRIDA, Hyderabad
11	Dr. M. Srinivasa Rao, Principal Scientist, Resource person	CRIDA, Hyderabad
12	Dr. N.B.V. Chalapathi Rao, Principal Scientist, Resource person	HRS, Hyderabad
13	Dr. S. Desai, Principal Scientist, Resource person	CRIDA, Hyderabad
14	Sh. E. Manikanta Reddy, TC	IFB-Hyderabad
15	Sh. DSS. Prasad, TC	
16	Sh. Shiva Kumar, PA	
17	Dr. Sumit Chakrabarti, Scientist-G	FRCCE- Vishakhapatnam
18	Dr. S.N. Mishra, Scientist-B	TFRI-Jabalpur
19	Dr. Sangeeta Singh, Scientist-E	AFRI-Jodhpur
20	Smt. Sema Kumar, Scientist-E	
21	Dr. ShiwaniBhatnagar, Scientist-D	
22	Dr. Arvind Kumar, Scientist-E	FRI-Dehradun
23	Dr. Sailesh Pandey, Scientist-D	
24	Ms. RanjanaJuwantha, Scientist-C	
25	Shri Rajesh Kumar, Scientist-C	RFRI-Jorhat
26	Dr. D. Dutta, Scientist-B	
27	Dr. N. Senthilkumar, Scientist-F	IFGTB-Coimbatore
28	Shri Subhash Chandra, Scientist-D	HFRI-Shimla