



### Accommodation

Boarding and lodging is available separately on payment basis in TFRI Guest House/ Hostel on request as indicated in Application Form. This will be at the rate of Rs.145/- per day per head. Food may also be provided on additional cost of Rs. 200/- per day per head, which includes morning tea, breakfast, lunch, evening tea and dinner. In this manner, those interested in accommodation and food arrangements may have to bear a cost of Rs.1035/- (Rupees One Thousand Thirty Five only) in addition to the Training Fee of Rs.3000/-. This additional amount may be paid in advance or during the training. Alternatively one can also book accommodation in hotels or anywhere own initiatives with own arrangement of transportation to the venue and back.

### Eligibility criteria

Post-Graduate students and Research Scholars in any branch of Life Sciences like Zoology, Environmental Science, Botany, Ecology, Forestry, Agriculture from a recognized university. People from NGOs, who have interests in learning ecofriendly alternatives of Insect Pest Management may also apply.

### Important dates

- 31/08/2016: Last date for receiving application along with training fee.  
05/08/2016: Receipt of application and training fee with late fee of Rs.500/-

### APPLICATION FORM

Name : .....

Qualification : .....

(Please enclose attested copy of M.Sc. mark sheet as proof)

Postal Address : .....

.....

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Details of payment : .....

(Cash/ Cheque/ DD in favour of the Director, TFRI, payable at Jabalpur)

Accommodation required (Yes/No): .....

(On charge basis day/ head)

Food required (Yes/No): .....

Contact no. : .....

Phone : .....

Mobile : .....

E. mail : .....

Date : ..... Signature

**Kindly return the completed form along with biodata, attested copy of M.Sc. Marksheet (appearing candidates may enclose IIIrd Sem marksheet) and Application Fee may be sent to the Training Coordinator by post, E. mail or by hand at :**

Dr. Nitin Kulkarni, Training Coordinator  
Scientist – G & Head, Forest Entomology Division  
Tropical Forest Research Institute  
P.O. – R.F.R.C., Mandla Road, Jabalpur (M.P.) – 482021  
Phone - 0761-2840634, Mob. – 9425325430  
E. mail: hfed\_tfri@icfre.org, kulkarnin@icfre.org, kulkarni\_n27@hotmail.com

**SHORTLISTED CANDIDATES WILL BE INTIMATED BY E. MAIL AND LIST WILL ALSO BE DISPLAYED AT <http://tfri.icfre.gov.in>**

## TRAINING ON COMPONENTS OF INTEGRATED PEST MANAGEMENT AND THEIR APPLICATION

(19<sup>th</sup> - 21<sup>st</sup> Sept., 2016)



Organized by

Forest Entomology Division  
TROPICAL FOREST RESEARCH INSTITUTE  
(Indian Council of Forestry Research & Education)  
(An autonomous council under Ministry of Environment and Forests and Climate Change, GoI)  
P.O. - R.F.R.C., Mandla Road  
JABALPUR (M.P.) - 482021  
Website: <http://tfri.icfre.gov.in>

## TRAINING ON COMPONENTS OF INTEGRATED PEST MANAGEMENT AND THEIR APPLICATION

Tropical Forest Research Institute, P.O. -  
R.F.R.C., Mandla Road, Jabalpur  
(19<sup>th</sup> - 21<sup>st</sup> Sept., 2016)

The insects, of all other pests known, are the major biological determinants of forestry and agricultural crops, forest trees in forests and their products. While as per an estimate nearly 15% of the total crop production is lost due to insect pests only. However, this figure can be an underestimation, as economical losses caused by many of the pest species has not yet been accurately estimated, particularly the losses caused to forestry at its various stages like seeds on trees, in storage, seedlings, young plantations and natural forests. All such insect pests negatively affect forest and agricultural productivity, incurring heavy economic losses. These losses are certainly not affordable with increasing demands due to population pressure and dependence on forest and agricultural products. The intensive production in a limited available land area is the only option to cope with the ever increasing demand. In search of quick effects and absence of proper guidelines, users are ultimately compelled to resort to excessive application of chemical insecticides with quick knock-down effects. Use of alarmingly high amount of various pesticides and insecticides invariably results in environmentally hazardous impact, including the biodiversity losses in local microclimate, as well as direct impact on human health.

With an aim to educate and popularize various components of Integrated Pest Management (IPM) as an ecofriendly and biorational alternative pest management method, the present training programme has been contemplated. The theme of the training

programme has not only an practical through its popularization but also of great academic utility, particularly for the young entomologists, educationists, environmentalists and all those who are concerned about the harmful hazardous impact of chemical pesticides and get certificate for their participation. The lectures will cover all available options for the management of agricultural and forestry insect pests and the economical and ecological aspects discussed above, including a discussion on future options. It also emphasizes need to popularize the ecofriendly and biorational options and to bring together the stakeholders, academia, researchers and policy makers to protect local biodiversity through opting environmentally safe insect pest management options.

### About Jabalpur

Jabalpur city is situated on the banks of the holy river Narmada. It is one of the major administrative and educational hub with four universities. It has heritage and various tourism spots, i.e., Marble Rock, Chausath Yogini temple at Bhedaghat, Dumna Natural Reserve, Bargi Dam, which are approximately 20 km away from the institute. The city is well connected with Kanha National Park, Pench National park and Bandhavgarh National Park. It is very well connected by train and daily connectivity of bus services. During September climate of Jabalpur is very pleasant with temperature ranging from 25 - 30 °C.



### About TFRI

The Tropical Forest Research Institute is the first forestry research institute under Indian Council of Forestry Research & Education, Dehradun (Ministry of Forest, Environment & Climate Change) in the central Region, catering to the forestry research

M.P., M.S., C.G. and O.R. states in various scientific aspects including Insect Pest Management through a very well equipped Forest Entomology Division.

The institute has an area of 109 ha with lush green campus. It has 8 research divisions for carrying out researches in the field of current requirements, indicated by the stakeholders' and an Forest Extension Division for disseminating research results to field and ultimately to different group of stakeholders' like progressive farmers, State Forest Departments, Forest Corporations and MFP Federations, NGOs, SHGs, and all those who are interested in forestry and environment in general.

### Outline of the Training

A tentative general outline is as follows -

1. Introduction to insects as pests and economic losses caused by them.
2. Brief introduction on harmful impacts of chemical insecticides on environment and human health.
3. Discussion on ecofriendly and biorational alternatives available.
4. Integrated Pest Management - Concept, history and prospects.
5. Components of IPM, their practical application and problems.
6. Practical/ hands-on training on insects and their bioagents.
7. Field visits and demonstration of biocontrol release.

### Training fee

This will be a paid training and will be charged @ Rs.3000/- per head. The cost of accommodation and food will be extra on demand, as per the information submitted by the participants in Registration Form.