

## ADDRESS FOR COMMUNICATION

Dr. Avinash Jain

Scientist- F & Course Director, Specialized  
Training on ICP/HPTLC/HPLC

Tropical Forest Research Institute,  
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Applications along with biodata and training fee may be sent to the Course Director at the given address by speed post/ registered post/ email or by hand in the prescribed format given below:

### APPLICATION FORM

Applicant's Name .....  
Qualification .....  
Biodata (enclose).....  
Postal address for  
communication.....  
.....  
E-mail ID.....  
Mobile No.....  
Fax No. (if any).....

Date :

Place: (Signature)

### Bank Details for online transfer:

**Bank Name:** Union Bank of India  
**Branch:** TFRI, Neemkheda, Jabalpur (MP)  
**A/c holder Name :** Director, TFRI  
**A/c number :** 325702011010998  
**IFSC code :** UBIN0564885

Confirmation letter for participation will be sent through email within three days from the receipt of application form, biodata and training fee.

## Specialized Training

On

**ICP/ HPTLC/ HPLC**  
10-12 January 2017

Organized by



## Tropical Forest Research Institute

Indian Council of Forestry Research and Education,  
An autonomous council under Ministry of Environment, Forest and Climate Change, Government of India

**P.O. – RFRC, Mandla Road  
Jabalpur (M.P.)**

<http://tfri.icfre.org/>

## ABOUT THE INSTITUTE

Tropical Forest Research Institute (TFRI), Jabalpur is one of the premier Institute under the Indian Council of Forestry Research and Education, Dehradun (an autonomous body under Ministry of Environment, Forest and Climate Change, Govt. of India). It was established as a regional centre of Forest Research Institute, Dehradun in 1973 and become a full fledged Institute in April 1988 with a mandate to conduct research on Non Wooded forest Products, Agroforestry, Forest protection Biofertilizers and Biopesticides, Rehabilitation of degraded lands and climate change, seed improvement and planting stock improvement etc. The institute is well equipped with modern analytical instruments and implements its mandate of research programme through competent scientists, forest officers and trained technical personnel placed in nine research divisions and one satellite centre 'Centre for Forestry Research and Human Resource Development' at Chhindwara, Madhya Pradesh. TFRI caters to the overall research needs of forests of four central Indian states, viz. Madhya Pradesh, Chhattisgarh, Maharashtra and Odisha in particular, and specific issues of forests and forestry sector confronting India, in general. The institute is situated 10 km from the Jabalpur railway station.

## ABOUT JABALPUR

Jabalpur is located on the bank of holy river Narmada and is a major administrative and educational hub of central India. The city is gateway to internationally acclaimed wildlife tourist destinations, which include Kanha (160 km SE), Bandhavgarh (200 km NE) and Pench (170 km SW) National Parks. Its minimum and maximum temperature is between 21°C to 45°C during summer and 10°C to 27°C during winter. Jabalpur is well connected by Road, Train and Air routes. The tourist places of Jabalpur include River Narmada, Bhedaghat (Marble rocks, Dhuandhar), Bargi Dam, Madan Mahal Fort and Rani Durgawati Museum.

## ABOUT TRAINING COURSE

Institute conducts training courses on different aspects of forest and environment for post-graduate and graduate students, researchers, officers and staff of industries viz. NTPC, SAIL, mines, state forest departments, farmers, NGOs etc. on regular basis. The purpose of this specialized training course is to enhance the skills and abilities on highly sophisticated instruments like Inductively Coupled Plasma Emission Spectrometer (ICP), High Performance Thin Layer Chromatography (HPTLC) and High Performance Liquid Chromatography (HPLC). The training programme will consist theoretical part and practical demonstration including hands on the instruments of the trainees.

## ABOUT THE INSTRUMENTS

**ICP** : Inductively Coupled Plasma Emission Spectrometer is used to determine trace elements and heavy metals viz. Cr, Co, Cu, Fe, Mn, Mg, Mo, Se, Zn, Hg, Cd, As, Tl and Pb in plant, soil, flyash, water and industrial effluent in ppm and ppb level. Thermo Fisher make ICP is installed in the laboratory of Forest Ecology & Rehabilitation Division of the institute.

**HPTLC** : High Performance Thin Layer Chromatography (HPTLC) is a sophisticated instrument and the advancement of TLC. It is used in the identification and quantification of hydrocarbons, alcohols, phenols, carbohydrates, ethers, epoxides, organic acids, lipids, steroids, pesticides, agrochemicals, synthetic and natural dyes. It is fast, simple and relatively inexpensive analytical tool used in pharmaceutical, environmental, biological, toxicological, forensic, food and chemical industries.

**HPLC** : High Performance Liquid Chromatography (HPLC) works on the mechanism of adsorption, partition and ion exchange depending upon the stationary and mobile phase. It is widely used in quantitative analysis, separation of components and identification of trace compounds in the biological samples collected from agriculture, environment, forensic, clinical and food and beverage sectors.

## ELIGIBILITY CRITERIA

Graduate and post graduate students, lecturers and professors from any recognized university, officers and staff from industries and PSUs like NTPC, SAIL, Coal India Limited and mines, Reliance, researchers from State Forest Research Institutes may participate in the training programme.

## TRAINING FEE PER PARTICIPANT

Rs. 4000/- (Rupees four thousand only)

Training fee may be paid in cash or online or through Demand Draft favoring 'Director, TFRI, Jabalpur' payable at Jabalpur from any nationalized bank. Fee once paid will not be refunded.

## IMPORTANT DATES

- 09/12/2016** : Last date of receiving the application form alongwith training fee  
**26/12/2016** : Last date of receiving the application form with late fee of Rs. 100/-

## ACCOMODATION

Boarding and lodging may be provided separately on payment basis in Rest House/ Hostel of the Institute, if requested. Rent for lodging will be Rs 145/- per day per room on shared basis and for boarding Rs. 200/- per day (including morning tea, breakfast, lunch, evening tea and dinner). Thus, a total of Rs 1035/- (Rupees one thousand thirty five only) will be required more in additional to training fee for boarding and lodging purpose, if needed. This amount may be paid either in advance or during the training. Alternatively you can also book accommodation in hotels or anywhere on your own initiatives (<http://jabalpur.nic.in/hotels.htm>).