

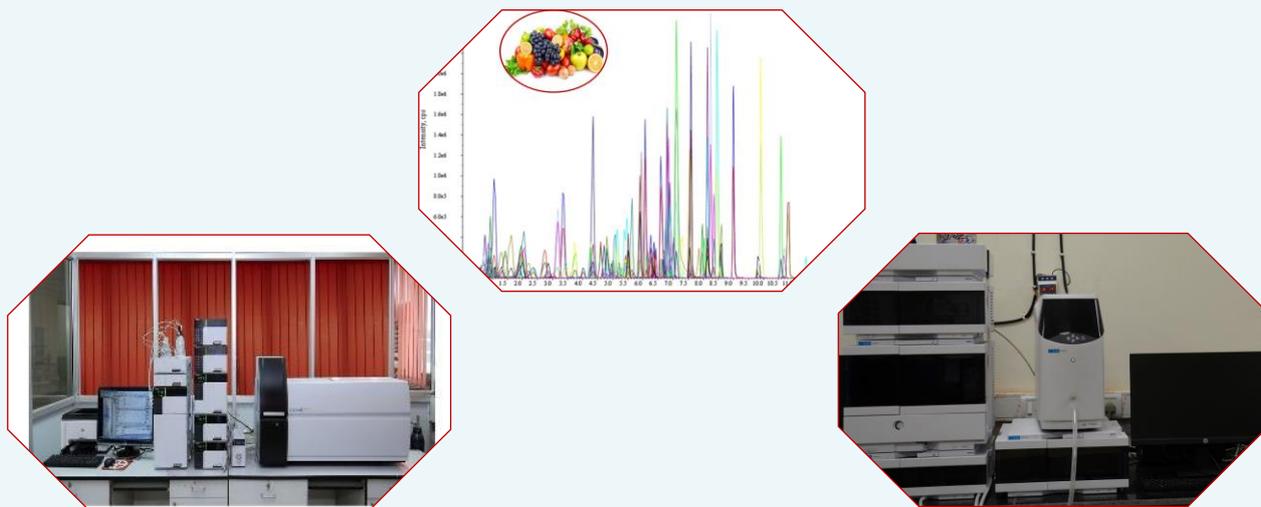


# ONLINE TRAINING PROGRAMME FOR TECHNICAL STAFF



## Trace Level Analysis of Pesticides, Phytochemicals, Sugars and Organic acids

(15<sup>th</sup> – 21<sup>th</sup> February, 2023)



**Sponsored by**  
**Indian Council of Agricultural Research**  
**New Delhi**

**Course Director**  
**Dr. Tirthankar Banerjee**

**Course Coordinators**  
**Dr. Suman Gupta**  
**Dr. Priya Saini**

**Division of Agricultural Chemicals,**  
**ICAR-IARI, New Delhi-110012**

## **Introduction**

Agriculture comprises livelihood source for around 50% human population of India. The country has to produce more than 400 MT of food grains by 2050, in order to feed an expected 1.65 billion people. Existing, emerging and invasive pest problems comprise major constraint in ensuring sustainable agriculture and household food and nutrition security of country and for this, use of chemical pesticides continues to be a major activity for farmers. In view of the environment and food safety issues lately gaining prominence, concern for chemical residues in food and inadvertent soil, water and environmental pollution by pesticides is receiving greater attention. In this current scenario the phytochemicals are considered to be a projecting refuge to avoid contaminants in food and environment. Therefore, to acquire knowledge on analysis of phytochemicals, organic acids and estimation of pesticide residues in food and environment, the training on “Trace Level Analysis of Pesticides, Phytochemicals, Sugars and Organic acids” is being organized with following objectives

## **Objectives**

- i. To provide hands-on training on gas chromatographic (GC) analysis of pesticides/phytochemicals/ sugars and organic acids
- ii. To facilitate hands-on training on liquid chromatographic (LC) analysis of pesticides / phytochemicals / Sugars / Organic acids
- iii. Instrumental requirement criteria for maintenance of Quality management systems in accredited laboratory

## **Course content**

The training consists of lectures on principle and instrumentation of GC & LC with detailed case studies of pesticides, phytochemicals and

sugars. It also comprises of hands-on training on TLC/Column chromatography/ GC/LC/GC-MS/LC-MS. Further, the training course will also give exposure on the extraction and clean up techniques for pesticides, phytochemicals, sugars and organic acids as well.

## **Eligibility**

The Technical personnel of ICAR institutes and from SAUs / CAUs / ICAR funded KVKs are eligible for participation in this online training programme. All the applications must be routed through the proper channel. There is **no course** fee for training since the training will be conducted online.

## **Duration**

The duration of the training course will be from **February, 15<sup>th</sup> to 21<sup>st</sup>, 2023**

## **Online training**

The training will be conducted online and the candidates should have Zoom accessibility. The zoom link will be shared with individual candidates through email after screening of the applications.

## **Last Date for nomination**

The duly filled nomination form forwarded through proper channel must reach [banerjeetirthankar72@gmail.com](mailto:banerjeetirthankar72@gmail.com) on or before **26<sup>th</sup> January, 2023**. The nomination form can also be sent by downloading from the website: **www.iari.res.in**. Selection would be based on the merit and field of expertise of the applicant. Announcement of the final selection will be intimated individually by **10<sup>th</sup> February, 2023** only through email.

## Contact Details

### Course Director

#### **Dr. Tirthankar Banerjee**

Principal Scientist, Division of Agricultural Chemicals,  
ICAR- Indian Agricultural Research Institute,  
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### Course coordinator:

#### **Dr. Suman Gupta**

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#### **Dr. Priya Saini**

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## APPLICATION FORM

(To be sent directly to the Course Director)

### **Trace Level Analysis of Pesticides, Phytochemicals, Sugars and Organic acids (15-21<sup>st</sup> February, 2023)**

1. Full Name (In block letters):

2. Designation:

3. Present employer and address:

4. Correspondence address:

E-mail: \_\_\_\_\_

Mobile: \_\_\_\_\_

5. Date of birth & Age:

6. Sex (Male/Female/Others):

7. Educational qualifications (with field of specialization):

8. Present field of work:

Date:

Place:

Signature of the applicant

Recommendation of the Forwarding Authority:

Date:

Signature and Seal:

Note: Please send the scanned copy of dully signed application form and contact details (email and mobile no.) via email to

[banerjeetirthankar72@gmail.com](mailto:banerjeetirthankar72@gmail.com) with copy to [drsumangupta2002@yahoo.com](mailto:drsumangupta2002@yahoo.com) and [saini\\_priya77@yahoo.com](mailto:saini_priya77@yahoo.com)