

# **Seven Days Short -Term Training Programme on "Cultivation, Processing and Quality Control of Commercially Important Medicinal & Aromatic Plants"**



## **Mandate:**

**CSIR-CIMAP is a national R&D Laboratory of having a unique research mandate on medicinal and aromatic plants (MAPs) for the industry and society. CIMAP is steering multidisciplinary high quality research in biological and chemical sciences and extending technologies and services to the farmers and entrepreneurs of medicinal and aromatic plants (MAPs) with its research headquarter at Lucknow (Uttar Pradesh) and Research Centres at Bangaluru (Karnataka), Hyderabad (Telangana), Pantnagar and Purara (Uttarakhand). CSIR-CIMAP is equipping the nation with high-tech agriculture linked to industrial processing of MAPs. CIMAP is equipped with state-of-the-art multidisciplinary laboratory, National Gene Bank Repository, Manau Garden , ultra-modern instrumentation facilities and scientific expertise in agriculture, genetics and plant breeding, molecular taxonomy, molecular and structural biology, plant biotechnology, biochemistry, microbiology, and chemical sciences, apart from development of herbal products.**



**CSIR-CIMAP,  
Lucknow**



**Purara, Bageshwar**



**Pantnagar**



**Hyderabad**



**Bengaluru**

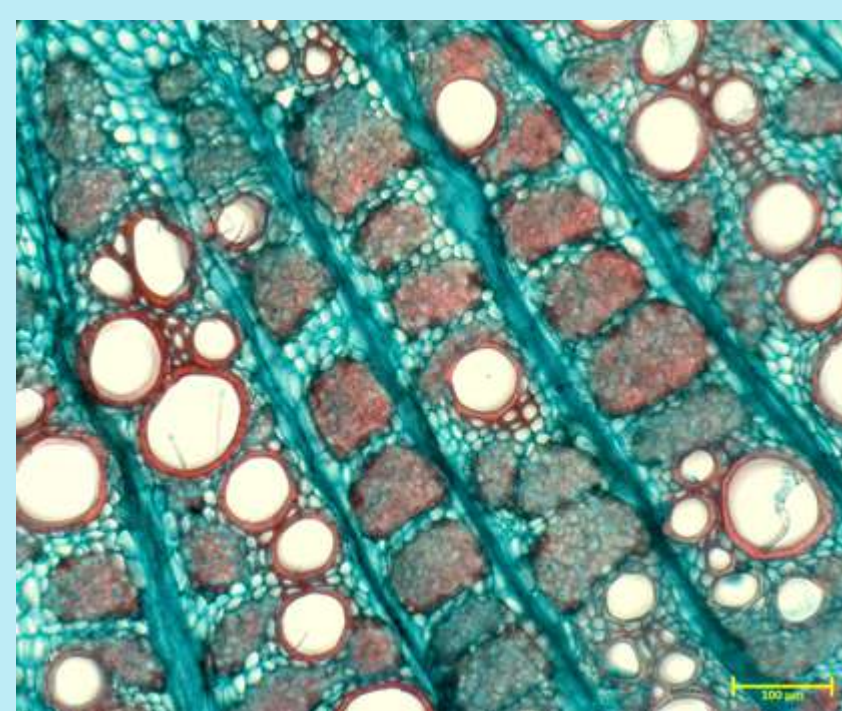
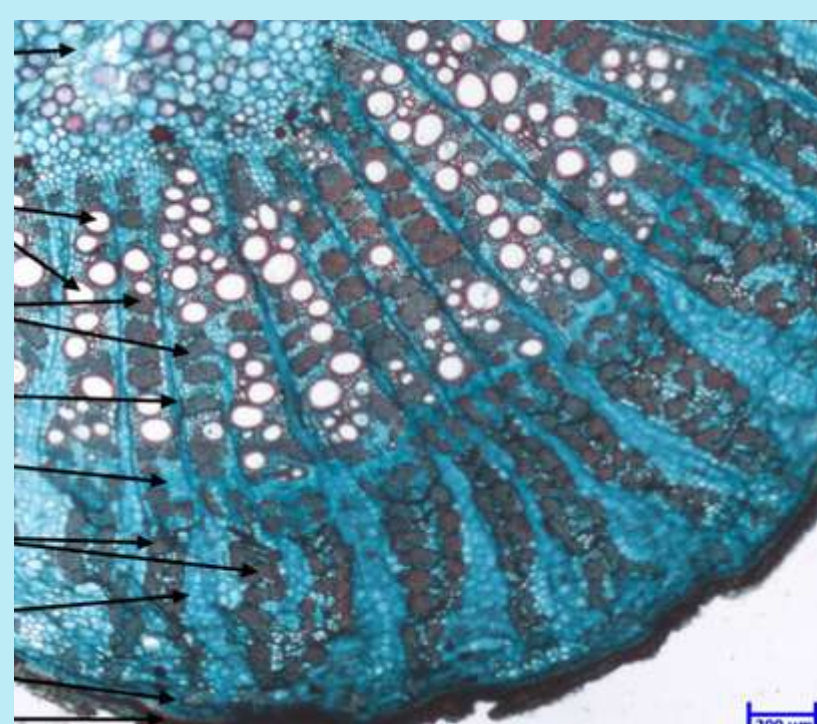


**CSIR-CIMAP**

**CSIR-Central Institute of Medicinal and Aromatic Plants  
(Council of Scientific and Industrial Research)  
Lucknow-226015, Uttar Pradesh India**

**web : [www.cimap.res.in](http://www.cimap.res.in)**

# About the Training Programme



<b>Title of the Course</b>	Seven Days Short Term Training Programme on "Cultivation, Processing and Quality Control of Commercially Important Medicinal & Aromatic Plants (MAPs) "
<b>Duration</b>	7 Days
<b>No. of Seats</b>	30 (50% from rural & 50%from urban)
<b>Educational Qualification</b>	B.Sc. Ag/B.Sc. (Science/ Agriculture Science) /B. Pharma / M.Pharma , B-Tech (Biotechnology ), Bachelor of Management etc.
<b>Age Group</b>	18-50 years (relaxation for SC/ST/OBC as per Govt. rules)
<b>Date of commencement</b>	18 November -24 November , 2019
<b>Venue of the Course</b>	CSIR-CIMAP, Kukrail, Picnic Spot, Lucknow
<b>Course fee</b>	Rs14,000 (Residential )• Fee will be collected through draft or RTGS, in favour of Director CSIR-CIMAP Payable at Lucknow Bank Detail-State Bank of India, Account No. 30267691783 IFSC code SBIN0000125 MICR code 226002002,
<b>Residential/Non residential</b>	Residential
<b>Contact</b>	Dr. Alok Kumar Krishna, CTP-PI Phone: 0522-2718595; E-mail: <a href="mailto:a.krishna@cimap.res.in">a.krishna@cimap.res.in</a>  Dr. Birendra Kumar, CTP-Co-PI Phone:0522-2718508; E-mail: <a href="mailto:b.kumar@cimap.res.in">b.kumar@cimap.res.in</a>  Dr. Narendra Kumar, CTP-Convener Phone:0522-2718661; E-mail: <a href="mailto:narendrakumar@cimap.res.in">narendrakumar@cimap.res.in</a>

## Gas Chromatograph

- Perkin Elmer Auto system XL GC
- AGILENT 7890 B GC
- VARIAN CP-3800 GC with COMBI-PAL HS

Gas chromatograph used for separation and analysis of compounds that can be vaporized without decomposition.





**Training for whom:** The programme targets to provide training for the youth graduate of any disciplines in both basic and applied aspects of agro and post harvest practices of medicinal aromatic plants.



**Management and faculty:** Faculty for the course is drawn from the vast expertise of CSIR- CIMAP and more importantly few faculties would be co-opted from the branded industries and lead bankers. CSIR-CIMAP has a well-knit management structure of the lines of all CSIR laboratories. A dedicated skill development group of seminar and training section in CSIR-CIMAP provides the necessary support to these training courses.

**Selection Procedure:** First Come, First Serve Basis.



**Methods of instruction:** In the training programme, participants will be well trained on theory and practical aspects of the cultivation, processing and quality control as per the USP guidelines of medicinal and aromatic plants, hands on training will have potential employment opportunities, will acquire adequate expertise to start their own farming, quality QC/QA of raw herbs /oils for suppliers and traders and will be referred for suitable placements in agri- industries as skilled manpower. Medium of instruction will be in Hindi and English. Test examination will be done during the course.



**Sponsorship:** Industrial sectors are welcome to sponsor candidates of their interest or non-profit making social organization or voluntary research organizations or Farmers Production Company.



### SALIENT FEATURES OF THE TRAINING

- 50% Theory and 50% practical sessions as per the course curriculum
- Tutorials (personal attention)
- Lectures, assisted with multimedia aids
- Case studies
- Group discussions
- Hands - on — practical experience on the state-of-the-art equipment / machinery
- Industrial visit
- Overall knowledge about medicinal crops.
- Assignments
- Potential placements and good demand in the agri- business.



**Yoga-Meditation will be integral & mandatory part of training ( 6-7 am daily) Programme.**



**EVALUATION OF TRAINEES:** Evaluation will consist of the following components

### **THEORY COURSE**

- (a) Continuous assessment through assignments (40%)
- (b) Mid Term and final examination (60%)

### **PRACTICAL COURSE**

- (a) Guided Experiments (30%)
- (b) Unguided Experiments (70%)



**CERTIFICATION:** A Certificate will be issued to the successful candidates.



**CSIR-CIMAP**

**For Further Information Please Contact:**

**Director,**

**CSIR-Central Institute of Medicinal and Aromatic Plants**

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