

## **Non residential Training Program in Plant Tissue Culture and Applications**

### **About EPTRI**

Environment Protection Training and Research Institute (EPTRI) was set up in 1992 as an independent registered society by the State Government with assistance from the Government of India. The State also provided bilateral assistance for technical collaboration between EPTRI and the Swedish International Development Co-operation Agency (SIDA).

EPTRI a premier agency in India, provides training, consultancy, applied research services and extends advocacy in the area of environment protection to industries, regulatory bodies, Government Organizations and NGOs and works towards bringing about change for a more balanced development.

It is involved in various activities covering environmental issues such as protected areas and biodiversity, urban agglomeration, environmental awareness, Human Resource Development, Capacity Building and Research.

### **Salient Features**

EPTRI received many accreditations and recognitions from National and international organisations. Owing to the availability of integrated facilities and services at its disposal, it provides training, applied research, technical support, capacity building and extends advocacy & consultancy in the area of environment protection to industries, regulatory bodies, government organizations and NGOs.

- EPTRI is an autonomous institution – registered as a Society
- Governed by a Board of Governors comprising of Central and State Government functionaries, industrial organizations, NGOs and specialists
- Chief Secretary, Government of Telangana is the Chairman of the Board of Governors.
- Director General is the Chief Executive.

### **EPTRI is recognized by the respective authorities as:**

- Environmental Impact Assessment (EIA) consultant Institute by National Accreditation Board for Education and Training (NABET), Quality Council of India (QCI).
- Empanelled Training Institute of Government of India for imparting training under the Technical Cooperation Scheme of the Colombo Plan.
- Centre for Climate Change and
- Nodal Agency for Clean Development Mechanism.
- Technical Consultant of Municipal Solid Waste Management.
- ‘Empanelled agency’ to provide technical support to States / ULBs to carryout investigation, design and thereafter to prepare the DPRs to help structure and manage schemes/ programmes in the field of municipal solid waste management.
- Empanelled Institute for preparation of State of Environment Reports.
- Centre of Excellence in Spatial Environmental Planning.
- Environmental Information System (ENVIS) Centres for Ecology of Eastern Ghats and State of Environment Report & Related Issues.
- Key Resource Centre for Rural Water and Sanitation.
- Member in the ‘Awareness and Capacity Building Committee of Telangana State Bio-diversity Board’

### EPTRI Laboratory has received recognitions and accreditations by

- NABL (National Accreditation Board for Testing and Calibration Laboratories) in the fields of Chemical and Bio-technology.
- Scientific and Industrial Organisation (SIRO) – recognised by Department of Scientific Research, Government of India.
- Environmental Laboratory under the Environment Protection Act, 1986.
- State Laboratory under the Water (Prevention & Control of Pollution) Act, of 1974.
- Certification under Occupational Health and Safety Management System.

EPTRI serves as a one-stop shop for comprehensive solutions to environmental issues and offers a wide range of services – laboratory analysis to environment management and an interface between regulation and community participation in preserving and conserving the environment.

### About PTCL

The laboratory is well equipped with up-to-date facilities for carrying out research activities. Inoculation room Facility with Horizontal Laminar-air-flow to raise in vitro plant tissue cultures under sterile conditions.

Well equipped laboratory with basic equipments to conduct laboratory experiments, media preparation etc. like, Double Distillation Unit, High Precision Digital Balance, Magnetic Stirrer, pH meter, Orbital incubator shaker, Refrigerated centrifuge, Inverted Microscope, Stereo zoom Microscope, Phase contrast microscope and Compound microscopes, Autoclave, Deep freezer. PTCL has fully equipped molecular lab as well.

Green House facility with controlled conditions of temperature, light and humidity for establishment of in vitro developed plantlets in soil. EPTRI is propagating few mosquito repellent plants through plant tissue culture techniques.

### Course content

DAY	COURSE CONTENT
Day 1	Lecture on “Collection, Handling and Instrumentation of Plant Tissue Culture”
Day 2	Media preparation, Sterilization
Day 3	Ex plants preparation, Aseptic inoculation, Callus induction
Day 4	Direct multiple shoot induction, Multiplication, <i>in vitro</i> and in vivo rooting
Day 5	Primary and Secondary Hardening

**Eligibility:** Graduate and Post Graduates in life sciences (Biotechnology, Agriculture, Horticulture, Botany and Seed Technology), persons working in relevant industries and entrepreneurs interested in propagating medicinal plants.

**Batch Size:** 10 numbers on first come first serve basis. Students need to enrol **ONE MONTH** in advance

**Duration:** Five days (If a holiday falls in between the training, a day will be extended). The training will be conducted during **THIRD WEEK of EVERY MONTH**

**Course Fee: Rs.1, 500/-** (Rupees Fifteen hundred only) plus GST (is as applicable) which includes tuition fee and training material (**proposed fee is applicable for the financial year 2017-2018**).

**How to apply:** Duly filled in application form along with a Demand Draft of Rs.1, 500/- plus GST (drawn at any nationalized bank) in favour of “**Director General, EPTRI, Hyderabad.**”

**Venue:** Plant Tissue Culture Laboratory (PTCL), EPTRI, Hyderabad

**Contact Details:** Head, Biotechnology Division, EPTRI on 040-23180121; ptcl.eptri@gmail.com

**NOTE:** *Food and refreshments will not be arranged by EPTRI. The institute would only open its cafeteria in case anyone would like to utilize that space for eating food, refreshments, drinks etc.*

### Application form

1. Full Name (in black letters) :
2. Date of Birth and Age :
3. Designation :
4. Organization & Address :

Affix  
passport  
size photograph

5. Address for correspondence :

6. Phone :

7. E-mail :

8. Educational qualifications (give particulars starting from highest qualification):

Degree	Subject(s)	College/ University	Year of Passing	% of Marks/ OGPA obtained

9. Major Area of specialization :

#### **SELF DECLARATION**

I hereby declare that the above information is true to my knowledge and I am fully responsible of the given information.

Signature of the Applicant