

projects carry forward research programs and 31 KVKs with various location specific extension programs for effective transfer of technologies to the farming community of the state.

About Biotechnology-cum-Tissue Culture Centre (BTCC)

The Centre was established in January 2009 with an objective to supply quality tissue cultured plantlets to the farmers of the state. Since then, the centre is propagating and supplying TC banana, Gerbera and sugarcane plants to the farmers of Odisha. Till date the centre has produced about 18 lakhs of TC plantlets of different crops for the farmers. The BTC Centre has developed its own *in vitro* protocol for large scale multiplication and plantlet production of four cultivars of banana i.e. G-9, Champa, Amritpani and Bantal. These plants are supplied to the farmers of Odisha at a subsidized price. The centre has also developed *in vitro* protocols for propagation of sugarcane cultivars like '86V96', Sabita, Neelamadhaba and Raghunath. Apart from these, the centre has also standardized protocols for *in vitro* propagation of commercial cultivars of gerbera and 4 species of orchids (Cymbidium, Rhynchostylis, Vanda and Dendrobium).

Reaching Bhubaneswar

Bhubaneswar is easily reachable from all major cities of the country including Delhi, Mumbai, Ahmedabad, Kolkata, Bengaluru, Chennai, Hyderabad, etc. It is well connected by rail, road and air. The city of Bhubaneswar has an excellent network of roads to ensure comfortable journey. Railway station and airports are well within the city limits.



Application form

1. Name
2. Father's Name
3. Present Position with affiliated institution
4. Address for communication
5. Permanent address
6. Date of Birth
7. Sex
8. Academic Qualification
9. Professional experience
10. Whether participated in similar kind of training programme earlier
11. Accommodation requirement - Yes/No
12. Why are you interested for the training :

Recommendation from the institute

Signature of applicant

Signature of the Head of the Station/Institute



Contact Address

Prof. Sashikala Beura, Director
Biotechnology-cum-Tissue Culture Centre
(Near Baramunda Bus Stand, Bhubaneswar)
Nodal Officer & Co-ordinator, Skill Vigyan Program
Ph- 9861138029
Email : btcc.2009.ouat@gmail.com



Faculty Training Programme



On
"Advances in Plant Tissue Culture Techniques"
under
Skill Vigyan Programme

23rd Feb to 15th Mar - 2021



Organized by :

Biotechnology-cum-Tissue Culture Centre (BTC Centre)
College of Agriculture, Bhubaneswar
Odisha University of Agriculture and Technology, Bhubaneswar

Sponsored by :

Science and Technology Department
Government of Odisha, Bhubaneswar

Preamble

Successful agriculture is solely dependent on Quality Planting Material and it is the need of the hour. In horticultural crops, QPM is produced through vegetative methods of propagation like cutting, budding, grafting and division etc. These methods have their limitations as far as rate of multiplication is concerned. Plant tissue culture technology is being widely used for large scale plant multiplication. Apart from their use as a tool of research, plant tissue culture techniques, in recent years, have become important in the area of plant propagation, disease elimination and crop improvement. A small piece of tissue can be used to produce thousands of plants within a short span of time and space under controlled conditions, irrespective of the season and weather. Moreover, the plants produced through tissue culture are disease free, uniform and exhibit early maturity as compared to conventionally propagated plants.

About the Course

The course is primarily designed to impart hands on training to the participants on various skills of plant tissue culture. During the 21 days, the participants will be trained on different aspects of tissue culture like preparation of culture media, standardization of surface sterilization of explants, inoculation, sub-culture, incubation of cultures, hardening of plants, maintenance of laboratory supplies, cleaning of laboratory equipments by utilizing proper cleaning protocols and procedures.

Objectives of the Programme

Plant Tissue Culture Techniques are required for mass multiplication of economically important crops viz. banana, Gerbera, Orchids etc. The objectives are :

- Protocols for mass multiplication and preparation of culture media
- Surface sterilization of explants
- Inoculation and sub culture
- Incubation of cultures

- Induction of rooting
- Hardening of plantlets
- General care of laboratory equipments by utilizing proper cleaning protocols

Eligibility

A total number of 20 participants will be selected on first come first serve basis with following eligibility criteria.

- Scientist/Faculty members of ICAR institutes & State Agriculture Universities (SAUs).

Resource Persons

Reputed Resource person of the country in addition to faculties from OUAT will be invited to deliver lectures in the training programme.

How to apply

Interested candidates should apply in the prescribed format given overleaf through proper channel. However, an advance copy may be sent to the Director, Biotechnology-cum-Tissue Culture Centre, OUAT, Bhubaneswar - 751003 to save delay. A scanned copy of the application form may be emailed to btcc.2009.ouat@gmail.com before due date.

Important dates

The last date for receiving application through proper channel is 01.02.2021

Notification for selection - 03.02.2021

The selected candidates will be informed individually through email/SMS/Whatsapp.

Travel, Lodging and Boarding

Participants selected for the training program will be paid travel fare as per OUAT norms & subject to availability of funds. Boarding and lodging (shared) will be provided to the participants in the guest house/ farmers hostel of OUAT, Bhubaneswar during the training period on payment of usual charges.

About COVID-19

Faculty training programme will be conducted following COVID guidelines of Govt. during the training program.

About Bhubaneswar

Bhubaneswar, the Temple City, is the Capital of Odisha and located in Eastern India. It is one of the most beautiful, versatile and popular tourist destination of the country. The city has some marvellous temples like Lingaraj Temple, Mukteswara Temple, Rajarani Temple, etc., together with a numbers of archaeological/ historical sites of Dhuli, Khandagiri and Udaygiri and Nandankanan Zoological Park. The art and craft of Odisha has also a fame worldwide. Weather in the month of February/March is pleasant with maximum temperature of 34°C and minimum temperature of 18°C.

Around Bhubaneswar

A sneak visit to the world famous places like Sun temple black pagoda at Konark (65 Km), Lord Jagannath Temple and sea beach at Puri (60 Km) Dolphin spot at Satapada (130 Km), Asia's largest salt water lake with migratory birds at Chilika (65 Km), Asia's largest Lord Buddha statue at Gajapati (270 Km) and other places of interest will make your visit memorable.

About OUAT

Odisha University of Agriculture and Technology is the second oldest agricultural university of the country, established in 1962 and dedicated for developmental initiatives through agricultural education, technology innovation for transmission and committed for excellence in graduation and post graduation studies both in basic sciences, agriculture and allied sciences with more professionalism. OUAT has 10 constituent colleges, one centre for Post Graduate studies (CPGS) and 10 agro-polytechniques to lead the versatile academic activities. Eight RRTTS, 52 AICRPs and several adhoc