SKILL TRAINING PROGRAMME
2024-2025

Diamond Jubilee 60 Years ICAR-CTCRI

भाकृअनुप ICAR

भाकृअनुप-केन्द्रीय कन्द फसल अनुसंधान संस्थान
(भारतीय कृषि अनुसंधान परिषद्)
श्रीकार्यम, तिरूवनन्तपुरम 695 017, केरल, भारत

ICAR-Central Tuber Crops Research Institute
(Indian Council of Agricultural Research)
Sreekariyam, Thiruvananthapuram 695 017, Kerala, India

केकफअसं CTCRI

ICAR-Central Tuber Crops Research Institute

(Indian Council of Agricultural Research)

Sreekariyam 695 017, Thiruvananthapuram, Kerala, India

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From the Director

In today's fast-paced world, where innovation and expertise are keys for human growth and development, our Skill Training Programme stands as a beacon for those seeking to enhance their professional skills and tackle specific challenges head-on. Developed under the expert guidance of our esteemed scientists, this programme is tailored to address the unique needs and aspirations of students and professionals alike.

At ICAR-CTCRI, we believe in the power of practical, hands-on teaching for effective learning. Our programme offers a problem-focused mentoring approach, providing trainees with the opportunity to work closely with experienced scientists on real-world issues. Whether you're a student looking to specialize in your field or a seasoned professional seeking to sharpen your skills, our training will equip you with the technical knowledge and expertise necessary for success in your future endeavors. With flexibility in duration ranging from 15 days to one year, our programme caters to individuals from diverse backgrounds and disciplines. Through individualized training and personalized guidance, we ensure that each trainee gains valuable insights and experiences that are relevant to their career goals.

The infrastructural facilities for our training include experimental farm, laboratories, techno incubation centre, library, museum, agricultural knowledge management unit, intellectual property and technology management unit, dairy unit and smart class rooms. The Institute also has an Agri-Business Incubation Centre to promote business incubation activities and startup ventures in tuber crops technologies and value added products.

In this skill training programme calendar, areas of training, duration, eligibility and other details pertaining to training programmes of ICAR-CTCRI has been depicted in a comprehensive manner, which will be useful for upscaling knowledge and skill of stakeholders in relevant areas. I urge the active participation and support of different categories of clienteles in various programmes by utilizing the facilities available at this Institute.

01 April 2024

G. Byju

About ICAR-CTCRI

The ICAR-Central Tuber Crops Research Institute (ICAR CTCRI) was established during the Third Five Year Plan for intensification of research on tuber crops (other than potato). The Institute started functioning on 01 July 1963 with its headquarters (HQ) at Sreekariyam, Thiruvananthapuram, Kerala. It has one Regional Station (RS) at Bhubaneswar, Odisha. The All India Co-ordinated Research Project on Tuber Crops (AICRP TC) was started in 1968 for testing and popularizing the location specific tuber crops technologies in various parts of India. It has presently 21 centres including ICAR-CTCRI HQ and Regional Station. The Institute is also one of the centres of the All India Co-ordinated Research Project on Pre and Post-Harvest Technology as well as AINPOF. The ICAR-CTCRI is conducting basic, strategic and applied research on various edible tropical tuber crops.

Vision

Root and tubers for ensuring better health, wealth generation and inclusive growth.

Mission

To integrate root and tuber crops as sustainable farming system components to ensure food and nutritional security of the nation and livelihood improvement of rural population.

Mandate

- Basic, strategic and applied research on genetic resource management, crop improvement, sustainable production and utilization of tropical tuber crops.
- Co-ordinate research and validation of technologies through AICRP on Tuber Crops.

Core Values of ICAR-CTCRI

- Innovations
- Diversity
- Commitment
- Excellence
- Farmers welfare

Divisions/Sections/Regional Station of ICAR-CTCRI

The Institute has three divisions, two sections and one regional station for doing research and development on tropical tuber crops.

1. Division of Crop Improvement
2. Division of Crop Production
3. Division of Crop Protection
4. Section of Crop Utilization
5. Section of Extension and Social Sciences
6. Regional Station, Bhubaneswar, Odisha

Mandate Crops

1. Cassava: *Manihot esculenta* Crantz, Euphorbiaceae
2. Sweet potato: *Ipomoea batatas* (L.) Lam., Convolvulaceae
3. Greater yam: *Dioscorea alata* L., Dioscoreaceae
4. White yam: *Dioscorea rotundata* Poir., Dioscoreaceae
5. Lesser yam: *Dioscorea esculenta* (Lour.) Burk., Dioscoreaceae
6. Elephant foot yam: *Amorphophallus paeoniifolius* (Dennst.) Nicolson, Araceae
7. Taro: *Colocasia esculenta* (L.) Schott., Araceae
8. Tannia: *Xanthosoma sagittifolium* (L.) Schott., Araceae
9. Giant taro: *Alocasia macrorrhiza* (L.) Schott., Araceae
10. Swamp taro: *Cyrtosperma chamissonis* (Schott.) Merr., Araceae
11. Chinese potato: *Plectranthus rotundifolius* (Poir.) Spreng., Lamiaceae
12. Yam bean: *Pachyrrhizus erosus* (L.) Urban, Fabaceae
13. West Indian arrowroot: *Maranta arundinacea* L., Marantaceae
14. Queensland arrowroot: *Canna edulis* (Ker-Gawler), Cannaceae
15. East Indian arrowroot: *Curcuma angustifolia* Roxb. Zingiberaceae

ICAR - Central Tuber Crops Research Institute

Sreekariyam 695 017, Thiruvananthapuram, Kerala, India.

Skill Training Programme

What is skill training programme?

The professional skill training is a problem-focused mentoring programme intended to solve a specific professional problem faced by the trainees under the expert guidance of the scientists of the Institute. The students are equipped with technical knowledge in the areas in which they need to be specialised in their future career. They will be provided with new assignments and they can gain expertise in the area of their interest. Their knowledge and skill in conducting quality research and publishing in high impact journals will be enhanced. Problems in managing scientific technical issue which require guidance from experienced professionals will be met.

Who can participate?

The programme is open for students and professionals.

Any student who completed BSc/ BTech/ BBA/ BA and MSc/ MTech/ MBA/ MA/ MPhil/ PhD (completed or pursuing) in Agriculture and allied disciplines, Engineering, Social Sciences, Life/ Natural Sciences and related disciplines can apply for skill training.

Forms of skill training

The students will be assigned to concerned scientist with whom the students have to work and they will get individualised training on specialised areas of work. At the end of the training period, the students are required to submit a brief report of work and present the work done for obtaining certificate.

Duration

This skill training will be from 15 days to one year duration. The trainees can choose to extend the period on payment of fee of subsequent months.

Areas of training and training fee : Please refer annexure

Documents to be submitted along with the application form

1. BSc/ BTech/ BBA/ BA along with MSc/ MTech/ MBA/ MA/ MPhil degree certificates, PhD degree and mark sheet (applicable).

2. A recommendation nomination letter from Head of the Department or Reporting Officer of Colleges/Universities/other Institutions.

Selection criteria

A committee constituted by the competent authority will screening the application for selecting suitable candidates. The selected candidates will be intimated by email. The decision of the director in selecting candidate for the skill training will be final in all respects.

Intellectual property

Trainees are required to give an undertaking prior to joining the programme He/She shall strictly maintain full confidentiality and secrecy of any information/matter relating to ICAR- Central Tuber Crops Research Institute (ICAR-CTCRI), Thiruvananthapuram.

The output/outcome of the training will remain as intellectual property of ICAR- CTCRI, Thiruvananthapuram and trainees can not use it without prior approval of Director ICAR-CTCRI, Thiruvananthapuram.

Method of application

The interested persons can fill up the application form appended in this brochure. The filled in form may be sent to PME (pme.ctcri@icar.gov.in) for further processing.

Annexure

Skill Training Programme at ICAR-Central Tuber Crops Research Institute

Division of Crop Improvement

Educational Qualification	Areas of training	Intake capacity	Duration	Fees (including GST 18%) in ₹
B.Sc (Ongoing)	• Breeding techniques in tuber crops • Mass propagation techniques in tuber crops	25	15 days or 30 days	236/day
B.Sc. Agriculture/ Horticulture/ Vegetable Science/ Botany/ Biotechnology	• Breeding techniques in tuber crops • *In vitro* regeneration and mass propagation techniques in tuber crops	15	6 months	4720
	• Crop improvement using conventional breeding techniques in tuber crops • Non-conventional approaches for tuber crop improvement • Protein chemistry and analysis	15	One year	5900
M.Sc./Ph.D in Botany, Biotechnology/ Genetics and Plant breeding /Agricultural Biotechnology/ Horticulture/ Vegetable Science	• Gene expression analysis in tropical tuber crops • Somaclonal variability in tuber crops • Stress tolerance mechanisms in tuber crops • Molecular cloning and genetic transformation • Molecular markers and marker assisted selection	15	6 months	7080
	• Gene, genetics and genomics in tuber crops • Multi-omics approaches for tuber crops improvement • Stress tolerance	15	One year	11,800

Division of Crop Production

Educational Qualification	Areas of skill development	Intake capacity	Duration	Fees (including GST 18%) in ₹
B.Sc. (Agriculture/ Horticulture)	Preparation of organic manures, vermicompost and liquid organic manures, soil, plant and tuber quality estimations	2	6 months	4720
B.Sc. (Agriculture/ Horticulture)	Hands-on training in field for application of nano urea and nano DAP, monitoring growth, yield and biomass measurements	1	6 months	4720
B.Sc.(Agriculture / Horticulture/ Biology)	Fertigation techniques vis-a-vis soil, plant parameters	1	6 months	4720
B.Sc. (Agriculture/ Horticulture)	Protected cultivation of horticultural crops	1	6 months	4720
B.Sc. (Agriculture/ Horticulture)	Techniques for rapid multiplication of quality planting materials, preparation of growing media and protray production	1	6 months	4720
B.Sc.(Agriculture/ Horticulture/ Biology)	Training in biochemical analysis	1	6 months	4720
B.Sc. (any branch of Chemistry)	Chemical analysis of soil, plant and water for major, secondary and micronutrients and tuber quality estimation	3	6 months	4720
M.Sc. (any branch of Chemistry)	Synthesis techniques of zeolites from fly ash and characterization	1	6 months	4720
B.Sc.(Botany/ Agriculture/ Biotechnology)	Estimation techniques of physiological parameters	1	6 months	4720
B.Sc. (Agriculture/ Horticulture/ Biology)	Soilless vegetable production	2	6 months	4720

B.Sc.(Agriculture/ Horticulture) and related subjects	Techniques and quality planting material production of tuber crops (Minisett techniques)	2	6 months	4720

Division of Crop Protection

Educational Qualification	Areas of training	Intake capacity	Duration	Fees (including GST 18%) in ₹
B.Sc. (On going students)- B.Sc (Biotechnology / Microbiology/ Biochemistry)	Disease diagnosis	15	15days	236 per day
B.Sc. (On going students) B.Sc (Biotechnology / Microbiology/ Biochemistry)	Molecular characterisation of plant pathogens	15	15 days	236 per day
B.Sc. graduates (Agriculture/ Horticulture/ Biotechnlogy)	Disease diagnosis	1	6 months	4720
Graduates (Zoology/ Agriculture)	Rearing of host insects for production of beneficial nematodes. Mass production of entomopathogenic nematodes (Beneficial nematodes).	2	6 months	4720
B.Sc. (Any branch)	Technology, formulation and standardization of bioformulations	1	6 months	4720
B.Sc. (Biotechnology Botany)	Molecular screening and identification of insect resistant genes in wild	1	6 months	4720
M.Sc. (Microbiology/ Zoology/ Entomology/ Biotechnology)	Isolation and and characterisation of micro-arthropods, endosymbionts, microbes. Molecular characterisation of arthropods/ insects	1	6 months	7080

Post graduates/ Ph.D Scholars (Nematology/ Entomology/ Zoology)	Rearing of greater wax moth larvae, *Galleria mellonella*. Mass production and *in-vitro* screening of entomopathogenic nematodes against pests.	2	6 months	7080
		2	One year	11,800
M.Sc (Biotechnology, Botany)	Molecular screening and identification of insect resistant genes in wild	1	6 months	7080
M.Sc. (any branch of Chemistry)	Isolation and identification of insecticidal compounds from wild *Ipomoea* spp. against sweet potato weevil	1	6 months	7080
B.Sc. (any branch of Chemistry)	Isolation and identification of insecticidal compounds from wild *Ipomoea* spp. against sweet potato weevil	1	6 months	4720
B.Sc. Microbiology or Biotechnology	*In vitro* multiplication and mass production of bio-agents	1	6 months	4720
B.Sc. Microbiology	Basic techniques in microbiology	1	6 months	4720
B.Sc graduates (Microbiology/ plant Pathology)	Isolation and characterisation of microbiome	1	6 months	4720
B.Sc graduates (Microbiology /Plant Pathology)	*In vitro* and field management of plant pathogens	1	6 months	4720
M.Sc/Ph.D graduates (Microbiology/ Plant Pathology/ Biotechnology)	Molecular based identification of pathogens and bioagents	1	6 months	7080
M.Sc. /Ph.D graduates (Microbiology/ Plant Pathology/ Biotechnology)	Diagnosis and management of plant pathogens	2	6 months	7080

M.Sc/Ph.D graduates (Microbiology/ Plant Pathology/ Biotechnology)	Molecular based identification of pathogens and bioagents	1	6 months	7080
M.Sc. Microbiology / Biotechnology	Basic and advanced techniques in microbiology	1	6 months	7080
M.Sc. Microbiology /Biotechnology	Isolation, characterization and mass production of bio-agents	1	6 months	7080
Post graduates/ Ph.D Scholars (Microbiology/ Biotechnology)	Utilization of microbes for plant disease suppression and nutrient management	1	One year	11,800

Section of Crop Utilization

Educational Qualification	Areas of training	Intake capacity	Duration	Fees (including GST 18%) in ₹
B.Sc. (any branch of Chemistry)	Chemical synthesis involving starch based biopolymers and their characterization	1	6 months	4720
B.Sc. (any branch of Chemistry)	Proximate and phytochemical analysis of plant samples	1	6 months	4720
M.Sc. (any branch of Chemistry)	Synthesis and characterization of chemical derivatives of starch and their evaluation in industrial applications	2	6 months	7080
M.Sc. (any branch of Chemistry)	Synthesis and characterization of chemical derivatives of starch and their evaluation in industrial applications	5	15 days	236 per day
B.Sc./B.Tech. Agricultural Engineering/ Food/Technology /Food Science and Nutrition) (Ongoing)	Value added products from tuber crops	3	6 months	4720

B.Sc./B.Tech. (Agricultural Engineering/ Food Technology / Food Science and Nutrition/ Food Science and Technology)	Value added products from tuber crops & Valorisation of by- products of tuber crops	1	One year	5900
M.Sc./M.Tech./ Ph.D. (Food Process Engineering/ Food Technology /Food Science and Nutrition/ Food Science and Technology)	Value added products from tuber crops & Valorisation of by- products of tuber crops	3	6 months	7080
		2	One year	11,800
B.Sc. (Food Science & Technology, Food Microbiology, Food Technology and Quality Assurance, Food Microbiology, Nutrition & Dietetics)	Development and nutritional analysis of functional foods	2	6 months	4720
M.Sc. (Food Technology/Food Science and Nutrition/Food Science and Technology)	Development of functional foods and their nutritional analysis	2	6 months	7080
B.Sc./B.Tech. Agricultural Engineering/ Food Technology/ Food Science and Nutrition) (Ongoing)	Post-harvest processing and value addition in tuber crops	10	15 days	236/day

B.Sc./B.Tech. (Agricultural Engineering/ Food Technology/ Food Science and Nutrition/ Food Science and Technology)	Advances in food processing and preservation	2	6 months	4720
M.Sc./M.Tech. (Food Process Engineering/ Food Technology/ Food Science and Nutrition/Food Science and Technology)	Post-harvest management and mechanization in tuber crops	2	6 months	7080

Section of Extension and Social Sciences /ICAR-CTCRI ABI

Educational Qualification	Areas of training	Intake capacity	Duration	Fees (including GST 18%) in ₹
B.Sc. (Ongoing) Any science	Intellectual Property Management, Technology commercialisation, market research and Incubator Management	4	15 days or 30 days	236 per day
Graduates B.Sc (Ag.) and allied sciences B.Com , B.Tech	Intellectual Property Management, Technology commercialization, market research and Incubator Management	2	6 months	4720
		2	One year	5900
Post graduates/ Ph.D Scholars Masters in Agriculture and allied sciences/ Any science degree M.Com/ME/ M Tech		2	6 months	7080

Ph.D in Agriculture and allied sciences, Engineering and technology and other sciences	Intellectual Property Management, Technology commercialization, market research and Incubator Management	2	One year	11,800
Economics Post Graduates M.Sc. (Agricultureal) Economics) MA Economics	Time series analysis Impact assessment	2	6 months	7080
Extension Graduates B.Sc (Agriculture) related disciplines / BA in Social Sciences	Gender mainstreaming in agriculture	2	6 months	4720
Post graduate in M.Sc (Agricultureal) Extension) related disciplines/MA Social Sciences		2	6 months	7080
Graduates B.Sc. (Agriculture) or related disciplines / BA in Social Sciences	Technology assessment and refinement Participatory technology development and transfer Documentation of ITKs / farmers innovations	1 1 1	6 months 6 months 6 months	.4720 4720 4720
Post graduate in M.Sc. (Agricultureal) Extension) or related disciplines/MA		1 1 1	6 months 6 months 6 months	7080 7080 7080

B.Tech (Ongoing) Computer Science, Electronics and related disciplines Graduates Computer Science and Engineering disciplines/ Agriculture	Technology development and improvement Data Science/Web technology/AI/IoT	2 3	6 months One year	236 per day 5900
Post graduates/Ph.D Computer Science and Engineering disciplines/ Agriculture	Data Science/Web technology/AI/IoT	3	One year	11,800
Graduates B.Tech in data science/Bio Informatics/ B.Sc. (Statistics)	Machine learning, deep learning models,Statistical machine learning, Bio informatics data analysis, Genomics	3	One year	5900
Post graduates /Ph.D		3	6 months	7080

Facilities at ICAR-CTCRI

- Air conditioned smart lecture halls of varying seating capacity equipped with advanced audio visual aids
- Computer labs with GIS, multimedia, E-learning facilities
- Conference rooms for video conferencing
- State of the art training halls with all modern facilities
- Well equipped laboratories
- Fully furnished guest rooms to accommodate 50 participants
- Library with latest editions of books and journals
- Campus wide Wi-Fi connectivity
- Agri Business Incubation centre with all facilities for the incubates and upcoming start ups
- Agricultural Knowledge Management Unit (AKMU)
- Dairy Unit
- Techno Incubation Centre (TIC)
- Departmental Canteen

Integrated organic farming system

AAS laboratory

Library

Agricultural Knowledge Management Unit

Agri Business Incubation centre

Techno-Incubation centre


Museum


Dairy Unit


Guest House

How to Apply

The interested candidates may send their filled-in applications (as per the format attached) for various skill training programmes to the concerned course mentor through e-mail. Participants for the training will be selected after an initial screening and selected candidates will be informed individually.

Fee Payment Details

Account Name	:	ICAR UNIT CTCRI
Account No	:	57019705533
Bank	:	State Bank of India
Branch	:	Kallampally
IFSC Code	:	SBIN0070288

Faculty of ICAR-CTCRI

Crop Improvement

1. Dr. Manas Ranjan Sahoo, Principal Scientist (Horticulture) & Head
2. Dr. M.N. Sheela, Principal Scientist (Genetics and Plant Breeding)
3. Dr. P. Murugesan, Principal Scientist (Vegetable Science)
4. Dr. K.I. Asha, Principal Scientist (Economic Botany and PGR)
5. Dr. C. Mohan, Principal Scientist (Genetics and Plant Breeding)
6. Dr. A. Asha Devi, Principal Scientist (Genetics and Plant Breeding)
7. Dr. Shirly Raichal Anil, Principal Scientist (Genetics and Plant Breeding)
8. Dr. L.K. Bharathi, Principal Scientist (Vegetable Science)
9. Dr. N. Krishna Radhika, Senior Scientist (Agricultural Biotechnology)

10. Dr. Kalidas Pati, Senior Scientist (Vegetable Science)
11. Dr. C. Visalakshi Chandra, Scientist (Genetics and Plant Breeding)
12. Dr. K.M. Senthilkumar, Scientist (Agricultural Biotechnology)
13. Dr. V.B.S.Chauhan, Scientist (Vegetable Science)
14. Mr. K. Hanume Gowda, Scientist (Vegetable Science)
15. Dr. T.P. Sujatha, Scientist (Agricultural Biotechnology)
16. Dr. S. N. Rahana, Scientist (Genetics and Plant Breeding)

Crop Production

1. Dr. G. Byju, Director (Soil Science)
2. Dr. G. Suja, Principal Scientist (Agronomy) and Head
3. Dr. M. Nedunchezhiyan, Principal Scientist (Agronomy)
4. Dr. K. Susan John, Principal Scientist (Soil Science)
5. Dr. S. Sunitha, Principal Scientist (Agronomy)
6. Dr. K. Laxminarayana, Principal Scientist (Soil Science) & SIC, Regional Station
7. Dr. K. Sunilkumar, Principal Scientist (Vegetable Science)
8. Dr. V. Ramesh, Principal Scientist (Soil Science)
9. Dr. R. Muthuraj, Principal Scientist (Seed Science and Technology)
10. Dr. R. Saravanan, Principal Scientist (Plant Physiology)
11. Dr. J. Suresh Kumar, Scientist (Vegetable Science)

Crop Protection

1. Dr. T. Makeshkumar, Principal Scientist (Plant Pathology) and Head
2. Dr. M.L. Jeeva, Principal Scientist (Plant Pathology)
3. Dr. S.S. Veena, Principal Scientist (Plant Pathology)
4. Dr. E.R. Harish, Senior Scientist (Agricultural Entomology)
5. Dr. H. Kesava Kumar, Senior Scientist (Nematology)
6. Dr. B.G. Sangeetha, Scientist (Agricultural Biotechnology)
7. Dr. R. Arutselvan, Scientist (Plant Pathology)

Crop Utilization

1. Dr. A.N. Jyothi, Principal Scientist (Agricultural Chemicals) & Scientist in Charge
2. Dr. M.S. Sajeev, Principal Scientist (Agricultural Structures & Process Engineering)
3. Dr. C. Pradeepika, Scientist (Vegetable Science)
4. Dr. T. Krishnakumar, Scientist (Agricultural Structures & Process Engineering)

Extension and Social Sciences

1. Dr. J. Sreekumar, Principal Scientist (Agricultural Statistics) & Scientist in Charge
2. Dr. Sheela Immanuel, Principal Scientist (Agricultural Extension)
3. Dr. V.S. Santhosh Mithra, Principal Scientist (Computer Applications & IT)
4. Dr. P. Sethuraman Sivakumar, Principal Scientist (Agricultural Extension)
5. Dr. D. Jaganathan, Senior Scientist (Agricultural Extension)
6. Dr. P. Prakash, Scientist (Agricultural Economics)

HRD Team

Nodal Officer	: Dr. Sheela Immanuel, Principal Scientist E-mail: sheela.immanuel@icar.gov.in
Co-Nodal Officer	: Dr. P. Prakash, Scientist E-mail: prakash.p1@icar.gov.in
Members	: Dr. Shirly Raichal Anil, Dr. L.S.Rajeswari, Dr. S. Karthikeyan, Mr. T. Manikandan Nair, Ms. Rini Alocious, Mr. Sreenath Vijay and Mr. P. Aswin Raj

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APPLICATION FORM: SKILL TRAINING PROGRAMME

Name	
Gender	
Designation & office address (if employed)	
Postal Address (In capital letters)	
Date of birth and age	
Nationality	
Educational qualifications	
Experience	
Mobile number/Email ID	
Training course applied for	
Details of documents attached	

Date:
Place:

Signature of the applicant

For office use only

SAO/FAO/Cashier Pls.

A total amount DD / online payment of Rs……..……..……..…..+18% GST may be accepted from the candidate towards the training fee for. .....

.....

.....DD NO / Online transaction No .....

…….....…dated…….....of…….....……..

AAO, ESTABLISHMENT

Signature of the Mentor

April 2024

Compiled and edited by
Dr. Sheela Immanuel, Dr. P. Prakash and Dr. D. Jaganathan

Published by
Dr. G. Byju
Director

भाकृअनुप - केन्द्रीय कन्द फसल अनुसंधान संस्थान
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Tel. No. : 91 (471)-2598551 to 2598554; E-mail: director.ctcri@icar.gov.in; Website: https://www.ctcri.org

Tuber Crops for ……..
Food, Health, Wealth and Prosperity

हर कदम, हर डगर
किसानों का हमसफर
भारतीय कृषि अनुसंधान परिषद
Agrisearch with a human touch

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