



## P. G. Patil

Ph.D., FISAE, FIE, FTAI

Vice Chancellor, Mahatma Phule Krishi Vidyapeeth, Rahuri

Dist.: Ahmednagar (Maharashtra)

(Former Director, ICAR-Central Institute for Research on Cotton Technology, Mumbai)

### 1. General Information

Name	Dr Prashantkumar Gulabrao Patil
Immediate Past Post Held	Director, ICAR-Central Institute for Research on Cotton Technology, Dept. of Agricultural Research & Education, Gol, Adenwala Road, Matunga, Mumbai - 400019 Office: 022-24146002, Email: <a href="mailto:pgpatil266@gmail.com">pgpatil266@gmail.com</a>
Qualifications	<ul style="list-style-type: none"><li>Primary: ZP School, Khardi, Dist.: Thane</li><li>High School up to 12<sup>th</sup> std.: Rayat Shikshan Sanstha's M. G. V. &amp; Jr. College, Khanapur, (Dist.: Sangli)</li><li>B. Tech. (Ag. Engg.), MPKV, Rahuri</li><li>M. Tech. (PHE), IIT, Kharagpur</li><li>Ph.D. (VNIT, Nagpur)</li></ul>
Permanent Address	<ul style="list-style-type: none"><li>Kavathe Ekand, Tah: Tasgaon, Dist: Sangli – 416307</li></ul>
Field of Interest	<ul style="list-style-type: none"><li>Post-harvest Technology of Agril. Commodities, Cotton etc. Farm Mechanization, Nano Technology, Bio-product utilization for value added products, Renewable Energy, Skill Development, Incubation &amp; startups, Education</li></ul>

### 2. Research and Academic Experience and activities

Previous Posts held	<ul style="list-style-type: none"><li><b>Director</b>, ICAR-CIRCOT, Mumbai</li><li><b>Head</b>, Division of Transfer of Technology. ICAR-CIRCOT, Mumbai</li><li><b>Professor</b>, College of Agril. Engg. &amp; Tech. Dr BSKKV, Dapoli (MS)</li><li><b>Scientist In-charge</b>, ICAR– Ginning Training Centre of CIRCOT, Nagpur</li><li><b>Advisor (Ginning)</b>, The Cotton Corporation of India Ltd. (CCI), Mumbai, [Technology Mission on Cotton, Ministry of Textiles, GOI]</li></ul>
Total Experience in R&D and Academics	<ul style="list-style-type: none"><li><b>Total</b>: 27 years, 6 months</li></ul>
Publications	<ul style="list-style-type: none"><li>Research Papers: 119, Books: 4, Book Chapters: 14, Training Manuals: 15, Technical Bulletins: 26, Pamphlets: 101, Conference Papers: 25, Patent: 1</li></ul>
Talks & Lectures	<ul style="list-style-type: none"><li>TV Talks: 7, Invited lectures: 15, Documentaries: 5</li></ul>
Projects Implemented	<ul style="list-style-type: none"><li>Externally Funded: 33, Institute projects: 28, International: 3</li></ul>
Seminars, Conferences, Workshops organised	<ul style="list-style-type: none"><li>International : 7, National: 25</li></ul>

### 3. Achievements

National Laboratories Developed/created	<ul style="list-style-type: none"><li>"National Laboratory for Advanced Material Characterisation"</li><li>"National Referral Laboratory for Cotton Testing"</li><li>"National Laboratory for Assessment of Trash and Contamination in Cotton"</li></ul>
Pilot plants/ Scientific Labs established:	<ul style="list-style-type: none"><li>State-of-the-art Nano Technology pilot plant</li><li>International Standard Laboratory for Characterization of Nanoparticles.</li><li>State-of-the-art Fibre Testing Laboratories at Mumbai, Nagpur, Coimbatore, Surat, Sirsa, Dharwad, Guntur</li><li>Electrospinning Laboratory</li><li>Kawabata Testing Facility: India's Unique facility to assess comfort properties of textile materials</li><li>Composite Laboratory</li><li>Paper and Pulp Laboratory</li><li>Modern Ginning and Pressing Pilot Plant</li><li>Pilot plant for Scientific Processing of Cottonseed</li></ul>

## Important Achievements

- Revitalized Cotton Ginning Industry in terms of Automation & capacity enhancement to attain self-sufficiency in processing
- Contributed in designing and development of cotton ginning machinery
- Empaneled Institute as Approval Assayer with ICCL and Bombay Stock Exchange
- Promoted start-ups through Agri Business Incubation
- Developed 60 technologies, 17 technologies commercialised, 10 incubates graduated
- Created skilled manpower by organising training programme in Agriculture and textile sector
- ARIS cell for E-office training
- Implemented government initiatives for community development like Swaccha Bharat Mission, Digital India, Make in India, Solar Energy, Skill India Development Initiative, Wealth from Waste, Doubling Farmers Income.
- State level coordinator for designing of Course curriculum for UG, PG, Ph.D. at DBSKKV, Dapoli (in farm structures)
- Established Regional knowledge cluster cum Training Centre for post-harvest and ginning technology in Benin, Western Africa
- Implemented Rashtriya Krishi Vikas Yojana – Remunerative Approaches for Agriculture and Allied Sectors Rejuvenation (RKVY- RAFTAAR) scheme sponsored by Dept. of Agricultural Cooperation, Ministry of Agriculture & Farmers Welfare under Agri Business Incubation, ICAR-CIRCOT.
- Implemented Technical Assistance Programme on Cotton (Cotton TAP) for Africa funded by Ministry of External Affairs, Gol
- Roof top Solar system at GTC, Nagpur
- Video conferencing room, Recreation room and Gymnasium for staff, Modern Record room

## Training (Skill Development) Modules Developed (16) and Trainings undertaken

- Advances in Application of Nanotechnology
- Synthesis and characterization of nanomaterials for agricultural applications
- Advances in Microscopy
- Characterization of Material using X-ray diffractometer
- Basic and Advanced statistical techniques for research
- Basic Statistical Techniques for Research
- Spectroscopic and Chromatographic Techniques for material characterization
- Electrospinning for nanofiber production and its application
- Fibre reinforced composites
- Knitting and knit garments
- Fibre and yarn quality management in spinning
- Absorbent Cotton Technology
- Post-harvest management of cotton and value addition to crop residues
- Value addition to cottonseed
- Instrumental evaluation of clothing comfort
- Basic and advanced techniques in evaluation of textile material

## Technology / Products / Processes Developed:

- Cloy Gin
- Lint Opener
- Modified DR Gin
- Acid delinter
- Cotton Gin Trash Crusher
- Rotary Tubular Drum Dryer
- Calibration Cotton
- Cotton Pre-cleaner
- Particle Board (from Biomass) Technology
- Continuous Feeding Stove, Briquettes, Pellets-technology
- Smart fabric for warm pads & garment
- Kawadi opener
- Single Locking Cotton Feeder
- Antimicrobial Bed Sheets
- Absorbent / Surgical Cotton/ wound pad
- Degossypolized Cottonseed meal for non-ruminant animals
- Process optimization for processing of naturally coloured cotton
- Process protocol for Banana fibres to board to ceiling and paneling
- Nanocellulose Production
- Green Crematorium
- Nano-ZnO, Nano-Sulphur Fertilizer
- Paper (from natural fibres) Technology

## 4. Member/ Chairman of Important Statutory Bodies and Committees

Nodal Officer to the Search Committee appointed by Hon'ble Governor	Selection of Vice - Chancellor of University
Dr. P. G. Patil	Dr. Panjabrao Deshmukh Krishi Vidyapeeth Akola
Dr. P. G. Patil	Maharashtra Animal & Fishery Sciences University, Nagpur
Dr. P. G. Patil	Vasantrao Naik Marathwada Agricultural University, Parbhani
Dr. P. G. Patil	Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli

- **Member**, Executive Council : Dr PDKV Akola and VNMAU Parbhani
- **Member**, Board of Management, Navsari Agricultural University, Navsari (Gujarat)
- **Bureau of Indian Standards**: Chairman, TX 01 committee; Chairman, TX 31 committee; Member, FAD 20 committee
- **Director**, Agricultural Finance Corporation India Ltd, Mumbai

- **Member**, Cotton Advisory Board, Ministry of Textiles, Govt. of India
- **Chairman**, Asian Cotton Research and Development Network (ICAC, Washington)
- **Chairman**, Indian Fibre Society, Mumbai
- **Vice Chairman**, Indian Society for Cotton Improvement, Mumbai
- **Chairman**, Board of Studies: Farm structures, DrBSKKV, Dapoli
- **Member**, Academic Council: DrBSKKV, Dapoli
- **Member**, selection and promotion committee of ASRB, New Delhi for Principal Scientists, Head of Departments
- **Member**, Selection committee of Maharashtra Council of Agricultural Education & Research (MCAER), Pune
- **Member**, Panel of experts, Institute Awards Committee Central Institute of Fisheries Education (Deemed University), Mumbai.
- **Member**, Professional Awards Committee of Textile Association of India
- **Member**, Selection and promotion committee for the posts of Dy. Registrar, Asstt. Registrar, Asstt. Comptroller etc. of the University
- **Chairman**, Assessment Committee for promotions of Subject Matter Specialist in KVK
- **Chairman and member** of various committees in institutes and other department
- **Member**, Research Advisory Committee, Central Silk Technological Research Institute, Bangalore
- **Member**, Quinquennial Review Team (QRT), ICAR-NINFET, Kolkata
- **Member**, State Level Co-ordination Committee for doubling of farmers income
- **Member**, Variety Identification Committee (Cotton), AICRP on Cotton
- **Member**, Technical Appraisal Committee (Cotton) Mini Mission IV
- **Co-Chairman**, West Zone Organizing Committee KRITAGYA Agtech Hackathon
- **Member**, National Steering Committee, KRITAGYA Agtech Hackathon
- **Chairman**, R-ABI Incubation Committee
- **Member**, IMC of CIPHET Ludhiana, NINFET

## 5. Awards & Recognition

### Individual Awards (11) :

- Letter of Appreciation: UN: United Nations Conference on Trade and Development (UNCTAD), Geneva
- RK Jain Memorial Award: Indian Society of Agricultural Engineers, New Delhi
- Golden Jubilee Award: Best S&T Innovation Award, MSME, Gol.
- Ahilya Devi Anap Award, ISCI, Mumbai.
- "Rajbhasha Gaurav Puraskar"
- Best Research Paper Awards: (3), Magnum Foundation Award etc.

### Team Awards (6) :

- ISAE Team Award
- Doordarshan Sahyadri Team Award, Ministry of Broadcasting, Gol
- ICAR Award for Best Business Planning and Development (BPD)
- Ganesh Shankar Vidhyarthi Hindi Patrika Puraskar ICAR, New Delhi
- Rajbhasha Award: Ashirwad (Literary socio-cultural organization)
- Award for promotion of Hindi: Rajbhasha Sansthan

### Institute Awards (9):

- Sardar Patel Outstanding ICAR Institution Award 2019: ICAR, New Delhi
- Cashless ICAR Institute Award: ICAR, New Delhi
- ICAR-CIRCOT empaneled as approved assayer of Multi Commodity Exchange, Indian Clearing Corporation Ltd, Mumbai
- Sardar Patel Outstanding ICAR Institution Award 2004: ICAR, New Delhi
- Inter Institute Avishkar Research Convention Overall Championship: (Rank 1) Category: Pure science :University of Mumbai
- ICAR-CIRCOT elected as corporate member of American Association of Textile Chemists and colorists: ASTCC, USA
- Best Cotton Researcher Award for 2019: International Cotton Research Association
- Ganesh Shankar Vidhyarthi Hindi Patrika Puraskar for Institute Hindi Patrika "Amber" ICAR, New Delhi
- Rajbhasha Shield: TOLIC, Mumbai Rajbhasha Award: Aashirwad, Mumbai

### Fellow:

- Textile Association of India (TAI)
- Institution of Engineers (India)
- Indian Society of Agricultural Engineers (ISAE)

## 6. Experience of Developing Collaborations / Linkage (more than 100)

### National Organisations:

- Institute of Chemical Technology (ICT), Mumbai
- University of Mumbai
- Veer Jijamata Technical Institute (V.J.T.I.), Mumbai
- Bhabha Atomic Research Centre
- Bank Note Press Mill, Mysuru
- Cotton Corporation of India, Mumbai
- Rashtriya Chemicals & Fertilizers Ltd., Mumbai
- Hindustan Unilever Ltd., Mumbai
- Bajaj Steel Industries Ltd., Nagpur
- The Clearing Corporation of India Ltd (CCIL)
- Kotak Commodities, Mumbai
- ITC Life Sciences & Technology Centre, Bengaluru
- University of Agricultural Sciences- Raichur
- Dr PDKV, Akola, ICAR-CICR, Nagpur
- ICAR Institutes
- Dr BSKKV, Dapoli
- Office of Textile Commissioner, Mumbai
- Cotton Association of India, Mumbai
- Maharashtra State Cooperative Cotton Growers Marketing Federation, Nagpur
- South India Textile Research Association, Coimbatore
- Bombay Textile Research Association, Mumbai
- Ahmedabad Textiles Research Association, Mumbai
- Textiles Committee of Ministry of Textiles, Mumbai
- Various Private companies like Hindustan Unilever, Reliance Industries Ltd., ITC Ltd., Precision Tooling Engineers, Lafarge India Ltd. etc.

### International Organisations:

- Cotton Development Organization (CDO), Uganda (Africa)
- Ministry of Agriculture and Food Security, Republic of Malawi
- Cotton 4 Countries (Benin, Burkina Faso, Chad & Mali), Malawi, Nigeria and Uganda
- Institut National des Recherches Agricoles du Benin (INRAB), Benin (Africa)
- Common Funds for Commodities (CFC), Netherlands
- Commercial Standardization of Instrument Testing of Cotton (CSITC), USA and International Cotton Advisory Committee, Washington
- International Cotton Association ICA Bremen, Germany ICAC, Washington, USA
- UNCTAD, Geneva, Switzerland

## 7. International Trainings attended: (7)

- LUMMUS Corporation, Savannah (Georgia), USA
- Cornell University, Ithaca, College of Agriculture & Life Sciences, USA
- University of Wageningen, Netherlands
- University of Bonn, Germany
- University of Ghent, Belgium
- Research Institute of Organic Agriculture, Fricks, Switzerland
- WTO, Geneva

### International Experience as Subject Expert: Cotton Technical Assistance Programme of MoEA, GOI.

- Cotton Development Organisation, Kampala, Uganda
- Bvumbwe Agricultural Research Station, Blantyre, Malawi
- INRAB, Bohicon, Benin (National Agricultural Research Institute)

### Countries visited: (11)

United States of America, Netherlands, Germany, Belgium, Switzerland, Uganda, Malawi, Benin, Tanzania, Uzbekistan, Bangladesh

