**Dr**. **Ashish Janraoji Warghane, Ph.D**



Associate Professor,

Faculty of Life Science, Mandsaur University,

Mandsaur Mhow- Neemuch By-pass Road, SH- 31,

Mandsaur- 458 001, M.P. India

# Permanent Address

At : Wahitpur, Post- Sukali (Station)

Tahsil: Seloo, District: Wardha, Pin: 442 001

Maharashtra, India

**Mobile No:** +91-9359101533, 8956649071

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# PROFESSIONAL QUALIFICATIONS:

|  |  |  |
| --- | --- | --- |
| Period | : | Designation and Employer |
| 1st July 2021 to till date | : | Associate Professor, Faculty of Life Sciences, Mandsaur University, Mandsaur, Mhow- Neemuch By-pass Road, SH-31, Mandsaur- 458 001 M.P. India. |
| 28thMarch, 2019 to 31st June, 2021 | : | Assistant Professor, Faculty of Life Sciences, Mandsaur University, Mandsaur, Mhow- Neemuch By-pass Road, SH-31, Mandsaur- 458 001, M.P. India. |
| 1st Sept., 2012 to 27th March, 2019 | : | **Senior Research Fellow / Young Professional II / Technical Assistant,** ICAR- Central Citrus Research Institute, Nagpur-440 010, Maharashtra, India. |
| 19th Jan., 2012 to 22nd Aug., 2012 | : | Chemist, Ground Water Survey and Development agency (GSDA), Chandrapur-442 401, India. |
| 1st Aug.,2011 to 12th Nov., 2011 | : | Lecturer- Department of Biotechnology, Jankidevi Bajaj Science College, Wardha-442 001, India. |

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# ACADEMIC QUALIFICATION

|  |  |  |  |
| --- | --- | --- | --- |
| **Name of Examination** | **University/Board** | **Year of Passing** | **Percentage** |
| Ph.D. (Biotechnology) | SHUATS, Prayagraj | 2018 | 88.60% |
| M.Sc.\*(Biotechnology) | R.T.M. Nagpur University | 2011 | 80.00% |
| B.Sc. (Biotech, Micro. & Chem.) | R.T.M. Nagpur University | 2009 | 64.40% |
| H.S.C. | Maharashtra State Board | 2006 | 57.50% |
| S.S.C. | Maharashtra State Board | 2003 | 64.40% |
| MS-CIT | MSBTE | 2017 | 88.00% |

\* **Second topper at University level**

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# Ph.D. Thesis Title:

“Molecular detection and characterization of *Citrus tristeza virus* and ‘CandidatusLiberibacter asiaticus’ related with citrus decline in India” under the esteemed guidance of **Dr. Pragati Misra, SHUATSs & Dr. Dilip Kumar Ghosh, Director**, **ICAR – Central Citrus Research Institute Nagpur, Maharashtra, India**

# Dissertation Work:

Isolation and Characterization of *Pseudomonas* species from Godavari River sample, under the esteemed guidance of **Dr. Murlidhar Jisnani, Professor, Sindhu Mahavidyalaya, Nagpur, Maharashtra, India**

**FIELD OF RESEARCH / INTEREST:**

* Plant Molecular Virology and Diagnostics
* Plant Pathology: Citrus greening
* Microbiology
* Biotechnology

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# *Google Scholar Profile*

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# RESEARCH PROJECTS

|  |  |  |  |
| --- | --- | --- | --- |
| **Name of Project** | **Funding agency** | **Cost** | **Status** |
| Molecular detection and characterization of ‘*Candidatus* Liberibacter spp.’ from major citrus growing region of Madhya Pradesh | Mandsaur University Research Council, (MURC) Mandsaur | Rs. 50000.00 | **Completed** |
| Production of organic manure using Soyabean industrial waste | Innovation, Incubation & Intellectual Property Rights Cell (III Cell), Mandsaur University | Rs. 28000.00 | **Completed** |
| Development of multiplex PCR based diagnostic kit for rapid and sensitive diagnosis of most devastating citrus diseases prevalent in India | Madhya Pradesh Council of Science and Technology (MPCST), Bhopal | Rs. 8,94,000.00 | **Submitted** |
| Development of broad range universal pathogen–PGPB consortium against fungal pathogens of soybean | Madhya Pradesh Council of Science and Technology (MPCST), Bhopal | Rs.7,62,000.00 | **Submitted** |
| Development of nanoemulsion based novel *Tinospora cardiopholia* extract against Candidatus Liberibacter asiaticus treatment of Citrus Greening Diseases | Start Up Research grant, SERB (DST) | Rs.170000.00 | **Submitted** |
| Assessment of Insecticidal Property of *Tinospora cordifolia* (Giloy) against *Diphorina citri* for Citrus Greening Disease Management | Delhi University, Delhi | Rs. 300000.00 | **Submitted** |

# EXAMS QUALIFIED AT NATIONAL LEVEL

* **ICAR-ARS NET** Examination; April and October 2014, Jan.2016.
* **Maharashtra State Eligibility Test (SET),** 2017, 2018.

**AWARDS**

* **Dr. R.L. Munjal Memorial Best Ph.D. Thesis Research Award"** from "Himalayan Phytopathological Society, Department of Plant Pathology, Dr. Y.S. Parmar University of Horticulture and Forestry, Nauni, Solan – 173230 (HP), India " 2021.
* **Young Scientist Award,** Microbiologist Society, India-2020.
* **Young Science Leader (YSL), Virtual Internship with Science Leader-2020.** Guided four National and International students in internship.
* **Utkrishta Sewa Samman-2022 – Dainik Bhaskar**, Mandsaur 04.04.2022.
* **Innovative Article Award-** Agriculture and Food Magazine., West Bengal, India.
* **Best Article Award**-Agriculture and Food Magazine., West Bengal, India.
* **Awarded** **First Prize** for the **Poster Presentation in National Symposium** on “Sustainable Citrus Production: Way Forward” ICAR- Central Citrus Research Centre for Citrus, Nagpur. Maharashtra, India. 2015.
* Received award for “**Best Seminar Topic”** from NACS College, Wardha, Maharashtra, India 2007.

**MEMBERSHIP/APPRECIATIONS**

* **Life member** Microbiologist Society, India.
* **Member** of Indian Phytopathology Society, New Delhi.
* **Member** of Himalayan phytopathology Society, Solan, Hemachal Pradesh.
* **Life Time membership**: International Journal of Sciences and Engineering development Research.
* **Member of Board of Studies,** Faculty of Life Sciences, Mandsaur University, Mandsaur.
* **Shikshak- Samman-** Teacher Day -05 Sept. 2021. Lions Club, Mandsaur, Madhya Pradesh, India
* **R & D Co-ordinater,** Faculty of Life Sciences, Mandsaur University, Mandsaur.
* **Examiner** for Practical Examination of Graduate and post graduate at Department of Agriculture, Mandsaur University, Mandsaur.
* **Moderator** for Mandsaur University Examination.
* **Counsellor for** Mandsaur University

# RESEARCH PUBLICATIONS

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sr. No | Authors | Title | Year | Journal/ Volume | Impact Factor |
| 1 | S. Kokane, P. Misra, A. D. Kokane, M.G. Gubyad, Ashish Warghane, D. Surwase, M. K. Reddy & D. K. Ghosh | Development of a real-time RT-PCR method for the detection of Citrus tristeza virus (CTV) and its implication in studying virus distribution in planta | 2021 | 3 Biotech,11, 431 (2021) | 2.40 |
| 2 | Ashish Warghane, T Petkar, S U Preeyaa, N Kumari N, L Ranjan. | In Silico Characterization of Severe Acute Respiratory Syndrome Coronavirus-2 (SARS-CoV-2) based on the Spike Protein Gene | 2021 | Eur. J. Medi. & Oncology. 2021; 5(2): 163-180 | Web of Science & Scopus Indexed |
| 3 | A. Kokane, Kapil Lawrence, D. Surwase, P. Misra, Ashish Warghane and D. K. Ghosh | Development of reverse transcription duplex PCR (RT-d-PCR) for simultaneous detection of the Citrus Tristeza Virus and Indian Citrus Ringspot virus | 2021 | Int. J of Inno. Horticulture9 (2), 131-138 | 3.4 (NASS) |
| 4 | A. Kokane, S. Kokane, Ashish Warghane, M. Gubyad, A. K. Sharma, K. M Reddy, D.K. Ghosh | A Rapid and Sensitive Reverse Transcription-Loop-Mediated Isothermal Amplification (RT-LAMP) Assay for the Detection of Indian Citrus Ringspot Virus | 2021 | Plant disease,105: 5, 1346-1355 | 4.2 |
| 5 | S. Kokane, A D Kokane, P. Misra, Ashish J Warghane, P. Kumar, M. Gubyad, A. K. Sharma, K. Biswas, D. K. Ghosh | In-silico characterization and RNA- binding protein based Polyclonal antibodies production for detection of citrus tristeza virus. | 2020 | Mol. and Cell. Probes. 54: 101654 | 2.36 |
| 6 | **Ashish Warghane,** A. Kokane, S. Kokane, M. Motghare, D. Surwase, S. P. Chodhury, K. K. Biswas, D. K. Ghosh | Molecular detection and coat protein gene-based characterization of *Citrus tristeza virus* prevalent in Sikkim state of India. | 2020 | Indian Phytopathology. 73,135–143 | 0.9 |
| 7 | D. K. Ghosh, M. Motghare, A. Kokane, S. Kokane, **Ashish Warghan**e, S. Bhose, D. Surwase, M. S. Ladaniya | First report of a '*Candidatus* Phytoplasma cynodontis'-related strain (group 16SrXIV) associated with Huanglongbing disease on Citrus grandis in India | 2019 | Aus. Plant Dis.Notes. 14:9 | 1.01 |
| 8 | D. K. Ghosh, Sunil B Kokane., A. Kokane., Ashish Warghane., M.R. Motghare., A. Sharma., M. K. Reddy | Development of a recombinase polymerase based isothermal amplification combined with lateral flow assay (HLB-RPA-LFA) for rapid detection of “*Candidatus* Liberibacter asiaticus" | 2018 | Plos one. 13 (12): e0208530. | 2.75 |
| 9 | D. K. Ghosh, S. Kokane, P. Kumar, A. Ozcan, **Ashish Warghane**, M. Motghare, S. Santra and A. K. Sharma | Antimicrobial Nano-Zinc Oxide-2S Albumin protein formulation significantly inhibits growth of “*Candidatus* Liberibacter asiaticus” in planta | 2018 | PLos one.13 (10):e0204702 | 2.75 |
| 10 | Gunjan Saini, N. Sharma, V. Dalal, **Ashish Warghane**, D. Ghosh, P. Kumar and A. Sharma | The analysis of subtle internal communications through mutation studies in periplasmic metal uptake protein CLas-ZnuA2 | 2018 | J. Stru. Biology. 204 (2), 228-239 | 3.49 |
| 11 | M. Motghare, A. K. Dhar, A. Kokane, **Ashish Warghane**, S. Kokane, A. K. Sharma, M. K. Reddy and D. K. Ghosh | Quantitative Distribution of Citrus yellow mosaic badnavirus in Sweet orange (*Citrus sinensis*) and its Implication in Developing Disease Diagnostics. | 2018 | J. Virol Methods. 259.25-31 | **1.75** |
| 12 | **Ashish Warghane**, P. Misra, S. Bhose, K. K. Biswas, A. Sharma, M. K. Reddy and D K Ghosh | Development of a simple and rapid reverse transcription-loop mediated isothermal amplification (RT-LAMP) assay for sensitive detection of citrus tristeza virus. | 2017 | J. of Viro Methods. Vol. 250, 6-10 | 2.00 |
| **13** | **Ashish Warghane**, P. Misra, D. K. Ghosh (LKN), P. K. Shukla and D. K. Ghosh | Diversity and characterization of Citrus tristeza virus and *Candidatus* Liberibacter asiaticus associated with citrus decline in major citrus growing areas of India | 2017 | Indian Phytopathology. Vol.70 (3) 359-367 | 0.8 |
| 14 | D. K. Ghosh, S. Bhose, P. Sharma, **Ashish Warghane**, M. Motghare, M.S. Ladaniya, K. Reddy, V. Thorat and A. Yadav | First Report of a 16SrXIV Group Phytoplasma Associated with Witches’ Broom Disease of Acid Lime (*Citrus aurantifolia*) in India. | 2017 | Plant Disease, 101 (5): 835 | 3.19 |
| 15 | N. Sharma, P. Selvakumar, G. Saini, **Ashish Warghane**, D. K. Ghosh, A. K. Sharma | Crystal structure analysis in Zn2+-bound state and biophysical characterization First Report of a 16SrXIV Group Phytoplasma Associated with Witches’ Broom Disease of Acid Lime (*Citrus aurantifolia*) in India.of CLas-ZnuA2. | 2016 | Biochimica et Biophysica Acta1864, 12: 1649-1657 | 3.1 |
| 16 | D. Ghosh, S. Bhose, M. Motghare, **Ashish Warghane**, K. Mukherjee, D. Ghosh. (Sr.), A. Sharma,  M. Ladaniya and S. Gowda | Genetic diversity of the Indian populations of ‘*Candidatus* Liberibacter asiaticus' based on the tandem repeat variability in a genomic locus. | 2015 | Phytopathology, 105:1043-1049 | 3.12 |
| 17 | Ghosh, S. Bhose, **Ashish Warghane,** M. Motghare, A. K. Sharma, A. K. Dhar and S. Gowda | Loop-mediated isothermal amplification (LAMP) based method for rapid and sensitive detection of ‘*Candidatus* Liberibacter asiaticus’ in citrus and the psyllid vector, *Diaphorina citri* Kuwayama. | 2016 | J of Plant Biochem and Biotech. 25 (2): 219–223 | 1.09 |
| 18 | D. Ghosh, S. Bhose, K. Mukharji, B. Aglawe, **Ashish Warghane**, M. Motghare, V.K. Baranwal and A. Dhar | Molecular characterization of Citrus yellow mosaic badnavirus  (CMBV) isolates revealed the presence of two distinct strains infecting citrus in India. | 2014 | Phytoparasitica. 42 (5): 681-689 | 0.90 |
| 19 | **Ashish Warghane,** G. Wagh, B.B. S.P Nag, M. Jisnani, R. Thaware and H. Kitey | Isolation and Characterization of *Pseudomonas* species from Godavari River sample. | 2011 | Asiatic J. Biotech  Resources  2 (7): 862-866 | NA |
| Book Chapter: | | | | | |
| 20 | D.K. Ghosh, **Ashish Warghane**, M. Motghare, D.K. Ghosh Sr. | Citrus disease and their management, Disease of commercial crops in India. | 2017 | Neoti Book agency Pvt. Ltd. New Delhi. 188 | NA |
| 21 | D. K. Ghosh, **Ashish Warghane,** K. K. Biswas | Rapid and Sensitive Detection of *Citrus Tristeza Virus* using Reverse Transcription-Loop Mediated Isothermal Ampliﬁcation (RT-LAMP)  Assay. | 2019 | Methods in Molecular Biology. Springer Nature.143-150 | NA |
| 22 | Rekadwad B, Gonzalez JM, Shah S, Suryavanshi MV, Khobragade CN, **Ashish Warghane** | Microbiome perspective: Cross-disciplinary exploitations of chitinases. Mycology: Current and Future Developments - Sustainable Utilization of Fungi in Agriculture and Industry. | 2021 | Bentham Science Publishers Pte. Ltd., Singapore.  (In Press). | NA |
| Technical/ Popular article | | | | | |
| 23 | **Ashish Warghane** | Citrus Tristeza Virus- The destroyer of citrus plant. | 2020 | Agriculture and Food: e- newsletter.2 (1): 440-441 | NA |
| 24 | **Ashish Warghane**, Trapti  Rajuguru, Shruti Sharma | *Pseudomonas:* The Multifaceted  Bacteria. | 2020 | Agriculture and Food: e- newsletter. 2 (6):159-160 | NA |
| 25 | Ayushi Malik **& Ashish Warghane** | Magnetic field: A growth impetus in Plant tissue culture" | 2020 | Agriculture and Food Magazine Vol.2(8): 830-831. | NA |

**NCBI sequences:**

A total of **300** bacterial and viral nucleotide gene sequences submitted in NCBI GenBank database.

# Editor of International and National Journal

# International Journal of Scientific Development and Research

* International Journal of Microbial Sciences
* Agriculture and Food e newsletter
* Science Inquest

# Reviewer of International journal

# Frontier

# Plant Pathology- Willy publication

* Journal of food Technology & Sciences (Springer Nature)
* 3 Biotech (Springer Nature)
* International Journal of Current Microbiology and Applied Sciences.
* Advances in Science, Technology and Engineering Systems Journal (ASTESJ)
* Agriculture and Food e newsletter
* International Journal of Microbial Sciences

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# Invited talks:

# Delivered Invited talk on “Major citrus viruses and “*Candidatus* liberibactor asiaticus” related with citrus decline in India at National E- Conference on “Emerging Trends in Agricultural & Biological Sciences (ETABS-2021) organized by Society of Bioinformatics and Biological Sciences (SBBS) in collaboration with Applied research and Development Organization (ARDO).

# Deliver virtual presentation as a “Key Note speaker” entitled on "Viruses and its detection using novel Molecular Biology Tools" at Institute of Applied Medicine & Research, Ghaziabad, Utter Pradesh, India Date:29.05.2020.

# Deliver virtual “Guest lecture” entitled on “Plant Viruses and their Diagnosis” at Molecular Diagnostics and Biomolecule Characterization Research Laboratory, Bannari Amman Institute of Technology, Sathyamangalam, TamilNadu, India Date: 20.10.2020

# Poster presented entitled “Development of Reverse Transcription–Loop mediated isothermal amplification (RT-LAMP) assay for rapid detection of Citrus tristeza virus” at Probing beneficial microorganism for next generation at PDKV, Akola, Maharashtra, India Date: 24 February, 2021.

# Trainings attended at different National Institutes / Research Centers:

|  |  |  |
| --- | --- | --- |
| **Title of Training** | **Venue** | **Dates** |
| CSIR-Summer Research Training Programme-2020 | CSIR-NIEST,Jorhat, Assam | June-Aug. 2020 |
| Training program on awareness of NABL ISO: 17025-2017 | Department of Civil Engineering, Mandsaur University, Mandsaur | 9-10 Aug, 2019 |
| Seed Health and Management | World Vegetable Centre, AVRDC, ICRISAT, Hyderabad | 9-11 Oct, 2018 |
| Cloning, Protein expression and purification | Indian institute of Technology (IIT), Roorkee. | 7-21 April, 2013 |
| Modern instrumental methods of analysis for diverse application: From nonmaterial to biology | Department of Chemistry VNIT, Nagpur | 22-26 Feb, 2016 |
| Citrus production and Post harvest Management | ICAR-CCRI, Nagpur | 9-13 March,2015 |
| Immunological, Molecular and Animal cell culture techniques | CIIMS, Nagpur | 1- 21 June, 2011 |
| Antibody purification, Antibody conjugation, ELISA | Abgenex Pvt. Ltd, Bhuvneshwar, Odisha. | 4-13 Nov,2016 |
| Application of Amplify RP discovery kit, Amplify RP Accer8 for detection of *Candidatus* Liberibacter asiaticus infecting citrus | Arsh Biotech Pvt Ltd. New Delhi | 14-16 March, 2016 |

# Faculty Development Program:

# Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on *"Nutraceuticals: Basics & Beyond*" from 2021-7-12 to 2021-7-16 at Bannari Amman Institute of Technology

# Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on *"Genome Engineering: CRISPR-Cas as an emerging Tool"* from 14/12/2021 to 18/12/2021 at IMS Engineering College, Ghaziabad.

# Research papers / Articles in National conferences: 03

# Abstract / Poster in National conferences : 50

# Conferences Attended : 10

**PhD Students Guiding:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No** | **Name of Student** | **Enrolment Number** | **Year** | **Topic** |
| **1** | Sachin Misal | 20LSC6LSC1002 | 2020 | Double Haploid production in *Capsicum annum* |
| **2** | Issupriya | 20LSC6LSC1001 | 2020 | Molecular detection and Characterization of “*Candidatus* liberibactor asiaticus” from the Mandsaur district of Madhya Pradesh. |
| **3** | Shruti Butwal | 21LSC6LSC1002 | 2021 | Molecular Characterization of ‘Candidatus Liberibacter asiaticus’ from Malwa Region of M.P. and *In-Silico* Drug Designing against its Vital Proteins |

**Dissertation Guidance to M. Sc. and B. Sc. Students:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr. No** | **Name of Student** | **Class** | **Year** | **Topic** |
| **1** | Tamanna Patidar | M.Sc. Biotechnology | 2020 | Molecular detection and Characterization of “*Candidatus* liberibactor asiaticus” from the Mandsaur district of Madhya Pradesh. |
| **2** | Shruti Sharma | M.Sc. Biotechnology | 2020 | Isolation and Characterization of  *Pseudomonas aeruginosa* and *Serratia macerence* from the Shivna River. |
| **3** | Asha Koushik | M.Sc. Biotechnology | 2020 | Molecular detection and Characterization of  “*Candidatus* liberibactor asiaticus” from the Mandsaur district of Madhya Pradesh. |
| **4** | Sunil Mali | B.Sc. Biotechnology | 2019 | Isolation of Coliform from Shivana River at Mandsaur. |
| **5** | Rajendra Rajput | B.Sc. Biotechnology | 2019 | Isolation of *Coliform* from Shivana River  near Pashupatinath Temple, Mandsaur. |

**Workshop Organizer/ Webinar/ Resources person/ Coordinator:**

* **Coordinator- Webinar “Know your Intellectual Property Rights and Protect them”** Organized with association ship with Patent Office, Mumbai, DPIIT, Ministry of Commerce and Industry, Govt of India-25th February 2022**.**
* **Coordinator-** Two Days Online National Workshop On **“Detection of Plant Viruses using Polymerase Chain Reaction (PCR)” (MDPVP-2022)** 18th– 19th February 2022**.**
* **Organizing committee member- International e-Conferences on Biological Sciences, organize by**

International Journal of Microbial Sciences. Dec., 2021.

* **Coordinator- Webinar “Research Methodology: The Era of Bioinformatics” organized on** 06.07.2021.
* **Coordinator- Expert lecture-** “Bifidobacterial Probiotics as Complementary Therapy for Covid-19” **Dated** 03 may, 2021**.**
* **Coordinator – Leader of the week event** entitled“Workplace Culture & Innovation” Dated on 09-December, 2021.
* **Organizing committee member-** **National Hands-On workshop-** Microbial Biotechnology Approach for Profiling Industrially Important Fungi 9-10 March, 2021.
* **Coordinator-International Essay Competition** Topic: The COVID-19 Vaccine: Present and Future. Dated on 12.12.2020
* **Resource’s person** -Online webinar on **Impact of COVID-19 on Global Higher Education** organized by Mandsaur university in association with CollegeDunya dated on 02nd May, 2020.
* **Coordinator** -Online National Workshop on **Molecular Detection of Plant Pathogen** using PCR 18-19 June, 2020
* **Coordinator-** Online Workshop: **Role of Biotechnology to identify a criminal.** dated on 7th May, 2020.
* **Coordinator**-Online Workshop: **Vaccine production through microbiology**. dated on 23rd May, 2020.

**Personal Information:**

|  |  |  |
| --- | --- | --- |
| Date of Birth | **:** | 16th April, 1987 |
| Age | **:** | 34 Years |
| Gender | **:** | Male |
| Marital Status | **:** | Married |
| Father Name | **:** | Mr. Janraoji Warghane |
| Mother Name | **:** | Mrs. Chanda Warghane |
| Nationality | **:** | Indian |
| Hobbies | **:** | Reading scientific book |

**Languages known:** English, Hindi, Marathi

# Strengths

* Hard worker
* Self-motivated
* Ability to work in team
* Positive attitude

# References

**Dr. Dilip Kumar Ghosh**

**Director,** ICAR – Central Citrus Research Institute Nagpur, Maharashtra, PIN: 440 010

E-mail: ghoshdk@hotmail.com Mobile: 9422145825/ 9623785121

**Prof. (Dr.) Ashwini Kumar Sharma**

**Professor,** **HoD,**

Department of biotechnology,

Indian Institute of Technology (IIT), Roorkee (UK), India

Email: [aksbsfbs@gmail.com](mailto:aksbsfbs@gmail.com)

Ph No : 0133-2285657

**Prof. (Dr.) A. M. Deshmukh,**

**President,**

Microbiologist Society India

Osmanabad, Maharashtra, India

Email: amdeshmukh1@rediffmail.com

Mobile: 9822079782

**Prof. (Dr.) R. M. Gade**

**Director-Extension**,

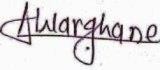
Panjabrao Krushi Vidyapeeth, Akola

E-mail: gadermg@gmail.com

Mobile:9850230555

**Declaration:**

I do hereby declare that the above-mentioned particulars are true to the best of my knowledge and belief.



**Date** : 26.04.2022 (Ashish J. Warghane)

**Place** : Mandsaur