

# DR. N.B. HIRULKAR

Associate Professor & Head  
Department of Microbiology



## Contact/Permanent Address:

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[nhirulkar2108@gmail.com](mailto:nhirulkar2108@gmail.com)

**Profile:** Doctor of Philosophy in the subject Microbiology from S.G.B. Amravati University, Amravati (M.S.), India in 2007. Dedicated teacher with more than 14 years of experience. Committed to acting not only as a teacher but as a mentor to my students. Adept in a range of teaching methods and able to establish clear objectives for my classrooms.

## **Career Objective:-**

To work in dynamic environment, this will enhance my knowledge and help me to acquire more skills to achieve excellence in the work. Work for continuous improvement in my teaching learning process and to take it to its zenith with my full efforts.

## **Present Employer: -**

**DEPT. OF MICROBIOLOGY, NABIRA MAHAVIDYALAYA, KATOL, DIST. NAGPUR, 441302**

## **Professional Brief**

**Research Publication-** 36  
**Conference/Seminar-** 24  
**Book Publication: -** 04  
**Chapter In Edited Book: -** 03  
**Editor of Books By :-** 02

## **Teaching Experience-**

**About 14 Years** (As Approved  
Teacher **RTM Nagpur University Nagpur**).

**About 3 Year in Deemed University**

**About 4 Year during Ph.D at SGB  
Amravati University, Amravati**

## **PG Teacher:**

Approved as PG Teacher for M.Sc.  
Microbiology by RTM Nagpur University

## **Ph.D. Supervisor:**

Approved as Ph.D. Supervisor in subject  
Microbiology by RTM Nagpur  
University, Nagpur

Registered Ph.D. Candidate: - 03

## **Work History**

### **JUNE 2011 – CURRENT**

**Asstociate Professor & Head** | Nabira  
Mahavidyalaya | Katol, Maharashtra

- Company Overview: (As affiliated with Teacher from RTM Nagpur University, Nagpur)
- About 14.5 years UG and PG
- (As Approved Teacher from RTM Nagpur University, Nagpur)

DECEMBER 2007 – JUNE 2011

**Asst. Professor & Head** | MIST Mandsaur  
Deemed University | Mandsaur, Madhya  
Pradesh

- About 3 years UG and PG

### **JULY 2004 – DECEMBER 2007**

**CHB Lectures** | PG Dept. of Microbiology  
S.G.B. Amravati University | Amravati,  
Maharashtra

- About 3 years

## Refresher/Orientation/FDP

**Orientation Course: - 01**  
**Refresher Course: - 04**  
**Faculty Development Program:**  
**- 02**

**Promotion under CAS I, II and III Cleared.**

## Training

- **Water Quality Monitoring** from M.P. Council of Science and Technology (MPCOST), Bhopal, MP.
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## Research Experience

- **Actively participated in research projects** with B.R. Nahata college of Pharmacy which is also a **TIFAC- CORE, DST and Scientific and Industrial Research Organization** under Ministry of Science and Technology, Govt. of India.
- **Published 29 research papers.**
- **Published research papers** after completion of Ph.D.
- **Supervised the Dissertation** of PG Biotechnology/Microbiology in year 2009-10
- **Supervised the Dissertation** Projects of PG Microbiology from year 2011-2025:- **121**
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## Administrative Experience

- **Head of the Department Microbiology** and Biotechnology from 2011 to till date.
- **Head of the Department (Life Sciences)** from 2007-2011
- Work as **Examiner** for Practical Examination of UG and PG by RTM Nagpur University.

## Education

**JANUARY 2007**  
**Doctor of Philosophy (Ph.D.):**  
Microbiology S.G.B. Amravati University,  
Amravati, M.S.  
Grade: NA

**JANUARY 2022**  
**M. Sc.:** Microbiology  
Barakatullah Vishwavidyalaya, Bhopal,  
M.P.  
Grade: 69%

**JANUARY 2000**  
**B.Sc.:** Microbiology  
Dr. H.S. Gaur University, Sagar, M.P.  
Grade: 61%

## Technical Qualification

- **Course- Diploma in Medical Laboratory Technology (DMLT).**
- **Center-** Devi Ahilya Institute of Paramedical Sciences INDORE (M.P.)  
Affiliated to PMTO  
Delhi.

## Computer Skill

- **Operating Systems :** Windows 98, Windows XP, Window 2007
- **Packages :** Ms Word, Ms Excel and MS PowerPoint & Internet

## Languages Known

**READ, WRITE and SPEAK - Hindi, English and Marathi**

## Extracurricular and Extension Activities

### Organized workshop/ National conference/ Awareness Program

1. **Organized workshop** on Production of Biofertilizers at MIST, Mandasaur 1n 2009
2. **Conducting Pulse Polio Awareness** campaign at Bhuniyakhedi in 2010.

- Work as **External Examiner** by S.G.B. Amravati University for conducting Practical examination of PG Classes.

### Organized Educational Tour

- Organized an Educational Tour of UG/PG student to **Sanchi Milk Processing Plant/** MP Biofertilizer Production Unit and in 2009.
- Organized an Educational Tour at Hyderabad of UG/PG students to **NIN, Biotech Industries**, etc. in 2011.
- Attending the **national conferences** with PG students at **Akola and Gondia** in the year 201112.
- Organized an Educational Tour to visit **ICAR (IRRI)Cuttack** with graduate and Postgraduate students in 2016-17
- Organized an Educational Tour to visit **CCMB Hyderabad** with graduate and Postgraduate students in 2016-17
- Organized an Educational Tour to visit Visit **MGIRI Wardha**
- Industrial visit to **Dinshwas dairy food pvt. Ltd. Nagpur** with graduate and Postgraduate students in 2016-17
  - Organized an educational tour to visit **Aurangabad** in 2019-20.

### Personal Details

- Father's Name : Shri. BABANRAO HIRULKAR
- Mother's Name : Smt. MALINI HIRULKAR

3. **Conducting Awareness Program** on Biofertilizer through PG students in 2011.
4. **Organized workshop** on "Techniques of Microbiology" at Nabira Mahavidyalaya, Katol (Coordinator) in 2011.
5. **Organized Poster Exhibition and Competition** (CCE Based) in 2011.(Coordinator).
6. **Organized National conference** on "Pharmacogenomics "Revolutionizing Personalized Medicine" (As **Organizing Secretary**) in 2012.
7. **Organized National conference** on "Pharmacogenomics "Revolutionizing Personalized Medicine" (As **Organizing Secretary**) in 2015.
8. **Coordinator of Collage, quiz competition**
9. **Organize** guest lectures under MOU with ASC College Pulgaon
10. **Started** Student Unit of Microbiologist Society India at Our College.

### Personal Details

- Complete Name : DR. NAVEEN KUMAR HIRULKAR
- Date of Birth : 05<sup>TH</sup> -APR- 1977
- Blood Group : 'A' positive
- Hobbies : Playing indoor games and listening to music.

## List of Research Paper Publications

Sr. No.	Title of The Paper	Journal /ISSN No.	ISSN No.	Year	Indexing /Impact Factor	Authors
1	‘Multiple Antibiotic Resistances (MAR) indexing to discriminate the source of fecal contamination in drinking water’	Nature environment and Pollution technology, 4(4):525- 528, 2005.	ISSN: 09726268(Print); ISSN: 2395.3454 (online)	2005	UGC Care/Scopus IF-0.7	D.H. Tambekar, <b>N.B. Hirulkar</b> and A.S. Waghmare
2	‘Studies of hygiene behavior on bacteriological quality deterioration of water in hotels and restaurants’.	Research Journal of Microbiology, 1(2): 183-189, 2006, Academic JournalsUSA.	(ISSN No. 1816-4935).	2006	ASCI IF-1	D.H. Tambekar, <b>N.B. Hirulkar</b> and D.D. Bhokhre, S.R. Gulhane and Y.S. Banginwar
3	‘Efficacy of H2S test for detection of fecal contamination in drinking water’	Journal of Current Sciences, 9 (1): 139-144, 2006.	ISSN 0011-3891	2006	UGC Care Listed IF-1.1	D.H. Tambekar, <b>N.B. Hirulkar</b> and S.R. Gulhane Y.S. Banginwar and N.S. Bhajipale
4	‘Suitability of the H2S test for detection of fecal contamination in drinking water’.	African Journal of Biotechnology, 5(10): 1025-1028, 2006	(ISSN No. 1684-5315).	2006	UGC Care IF-0.6	<b>Hirulkar N. B.</b> and D.H. Tambekar
5	‘Water hygiene behaviors in hotels and restaurants and their effects on its bacteriological quality’.	Biotechnology,5 (4): 475-477,2006	(ISSN No. 1682-296X).	2006	UGC Care IF-0.5	D.H. Tambekar, <b>N.B. Hirulkar</b> , Y.S. Banginear, P.N. Rajankar and S.S. Deshmukh
6	‘Prevalence of thermo tolerant <i>Escherichia coli</i> in drinking water and its multidrug resistance’.	Research Journal of Microbiology, 1(5): 458-462, 2006,	ISSN (1816-4935).	2006	ASCI IF-1	D.H. Tambekar, <b>N.B. Hirulkar</b> , M.V. Kalikar, Y.S. Patil and S. R. Gulhane
7	‘Evaluation of hydrogen sulphide test for detection of fecal coliforms contamination in drinking water from various sources’.	African journal of biotechnology vol.6 (6), pp. 713- 717, 2007	(ISSN No.1684-5315).	2007	UGC Care IF-0.6	D.H. Tambekar, <b>N.B. Hirulkar</b> , P.N. Rajankar and S.S. Deshmukh
8	‘Water Quality indexing and correlation coefficient of physicochemical	Nature Environment and Pollution Technology,	ISSN: 09726268(Print); ISSN: 2395.3454 (online)	2007	UGC Care/Scopus IF-0.7	D.H. Tambekar, <b>N.B. Hirulkar</b> , Y.N. Mule and R.S. Dongre

	characteristics of ground water in Amravati city’.	6(1):45-49, 2007.				
9	‘MAR Indexing of <i>Pseudomonas aeruginosa</i> from drinking water’	Nature Environment and Pollution Technology, Vol. 6 (3), p.p. 521-524, 2007.	ISSN: 09726268(Print); ISSN: 2395.3454 (online)	2007	UGC Care/Scopus IF-0.7	D.H. Tambekar, <b>N.B. Hirulkar</b> , and D.D. Walke
10	‘Multidrug resistance in <i>Salmonella typhi</i> isolated from drinking water in Amravati’.	Nature environment and Pollution technology, vol.6 no.2 p.p. 285-288 2007.	ISSN: 09726268(Print); ISSN: 2395.3454 (online)	2007	UGC Care/Scopus IF-0.7	D.H. Tambekar, <b>N.B. Hirulkar</b> , and S.A. Werulkar
11	‘Rapid and modified field test for detection of fecal contamination in drinking water’.	Journal of Scientific and Industrial Research, vol.66, p.p. 667-669, 2007.	ISSN 0975-1084 (Online)	2007	UGC Care IF-0.7	D.H. Tambekar and <b>N.B. Hirulkar</b>
12	“Antimicrobial activity of rose petal extract against some pathogenic bacteria”.	International journal of Pharmaceutical and Biological Archive, 2010, Vol. I (05), 478-484	. (ISSN NO. 0976-3333).	2010	Earlier Listed UGC Care	<b>N.B. Hirulkar</b> , and Mona Agrawal
13	"Studies on prevalence and multiple antibiotic resistance pattern of <i>E.Coli</i> isolated from drinking water"	International Journal of pharmaceutical and Biological Archive, 2011, Vol. II (02) 716-723.	(ISSN No. 0976-3333).	2011	Earlier Listed UGC Care	<b>N.B. Hirulkar</b> , and Asha Panwar
14	"Incidence of Antibiotic Resistant <i>Pseudomonas aeruginosa</i> isolated from drinking water"	International Journal of pharmaceutical and Biological Archive, 2011, Vol II (02) 678-687.	(ISSN No. 0976-3333).	2011	Earlier Listed UGC Care	<b>N.B. Hirulkar</b> , and Bhawana Soni
15	"Influence of Hyperglycemia on Renal Function parameters in patients with diabetes mellitus"	International Journal of pharmaceutical and Biological Archive, 2011, Vol II (02) 734-739.	(ISSN NO. 0976-3333).	2011	Earlier Listed UGC Care	Anupriya Shram, <b>N.B. Hirulkar</b> , Priyanka Wadher and Prakash Das

16	"Effect of Hyperglycemia on electrolyte imbalance"	International Journal of pharmaceutical and Biological Archive, 2011, Vol II (01) 526-533.	(ISSN No. 0976-3333).	2011	Earlier Listed UGC Care	Anupriya Shram, <b>N.B. Hirulkar</b> , and Payal Ranka
17	"Studies on antibacterial activities of <i>Cymbopogon Citrates</i> "	Int. Journals of Researches in bioscience, Agriculture & Technology, Vol. Special Issue, pp. 145-151, 2014.	(ISSN No.. 2347-517X)	2014	Earlier Listed UGC Care	<b>N.B. Hirulkar</b> ,
18	"Studies on dyes decolonization of <i>White Rot Fungi</i> , isolated from soil"	Int. Journals of Researches in bioscience, Agriculture & Technology, Vol. Special Issue, pp. 131-138, Dec. 2014.	(ISSN No.. 2347-517X)	2014	Earlier Listed UGC Care	Ridhorkar D.M., Thakre R.U. and <b>N.B. Hirulkar</b> ,
19	"Studies on diversity and activity of PSB isolated from citrus field soil"	Int. J. of Life Sciences, Special Issue, pp 52-58 A8/September 2017.	(ISSN: 23207817/eISSN :2320964X).	2017	Peer Review	<b>N.B. Hirulkar</b> , And Ridhorkar D.M.
20	'Effect of Different Flavouring and Coagulating Agent on Production Flavored Tofu and its Comparative Microbial Analysis"	B. Adhar int. Peer review index research journal Sept 2022).	(ISSN2278-93078 Sept 2022).	<b>2022</b>	Peer Review	<b>N.B. Hirulkar</b> , And Nikhita Rewatkar
21	"Isolation and Characterization of pathogenic Microorganisms Form Raw Meat Sold in rural and Urban Area in Nagpur District"	<b>B.</b> Adhar int. Peer review index research journal (ISSN2278-93078 Sept 2022).	(ISSN2278-93078 Sept 2022).	<b>2022</b>	Peer Review	<b>Hirulkar N.B.</b> and Simran S. Sonule
22	"Isolation and Characterization of Surface Micro biome Present On The Common fishes Sold In Rural Market Of Nagpur District"	B. Adhar int. Peer review index research journal (ISSN2278-93078 Sept 2022).	(ISSN2278-93078 Sept 2022).	<b>2022</b>	Peer Review	N.B. Hirulkar, And Sana M. Sheikh
23	"Studies on Assessment of Antimicrobial Activities of Cow Urine	B. Adhar int. Peer review index research journal	(ISSN2278-93078 Sept 2022).	<b>2022</b>	Peer Review	<b>N.B. Hirulkar</b> , Dhanvati B.

	against Selected Enteric Pathogens”	(ISSN2278-93078 Sept 2022).				Shende And Ridhorkar D.M.
24	“Studies on the National Education Policy 2020 in the Specific context of Higher Education”	International Peer-Reviewed Multidisciplinary E-Journal, Vol. 4 (2023) Special I.	ISSN 2582-9173,	2023	Peer Review	<b>N.B. Hirulkar,</b> And Ridhorkar D.M.
25	“Studies on the assessment and production of Biofuels in India: A systematic review”	International Journal of Current Engineering and Scientific Research, Vol. II, Sept. 2024	ISSN 2393-8374	2024	Peer Review	<b>N.B. Hirulkar,</b> And Ashwini M.Burre
26	“Multidrug Resistance Pattern of <i>E. Coli</i> found in Milk and Milk Product samples	” International Journal of Current Engineering and Scientific Research, Vol. II, Issue 9, 2024.	ISSN 2393-8374	2024	Peer Review	<b>N.B. Hirulkar,</b> And Ridhorkar D.M.
27	“Evaluation and screening of the Cholesterol Degrading ability of some bacterial isolates”	International Journal of Current Engineering and Scientific Research, ISSN 2393-8374 Vol. II, Issue 9, 2024.	ISSN 2393-8374	2024	Peer Review	S.P. Nabira and <b>N.B. Hirulkar</b>
28	A Comprehensive Review of Applications and Advancements in Rapid Diagnostic Technologies: Shaping the Future of Microbiological Detection	International Journal of Advanced Research in Biological Sciences ISSN: 2348-8069 Int. J. Adv. Res. Biol. Sci. (2025). 12(1): 23-34	ISSN: 2348-8069	2025	Peer Review	Ashwini M. Bhurre <sup>1</sup> , Pratibha Dawande <sup>2</sup> , Mrunali S. Tarale <sup>1</sup> and <b>N.B. Hirulkar<sup>3*</sup></b>
29	Comprehensive Review on the Role of Microbial Phosphate Solubilization in Citrus crops	International Journal of Advanced Research in Biological Sciences ISSN: 2348-8069 Int. J. Adv. Res. Biol. Sci. (2025). 12(1): 51-60	ISSN: 2348-8069	2025	Peer Review	<b>N.B. Hirulkar</b> and D. M. Ridhorkar
30	Probiotics and Prebiotics- A Comprehensive review of their role in treating infectious diseases and	Acta Scientific Microbiology ISSN 2581-3226	ISSN 2581-3226	2025	Peer Review	Ashwini M. Bhurre, <b>N.B. Hirulkar</b> and Bhupesh Bhendarkar

	their impacts on the gut microbiome	Vol-8, Issue 7 2025 PP 71-79				
31	The role of Biofilm in antibiotic resistance and chronic wound infection of patents	Acta Scientific Microbiology  ISSN 2581-3226  Vol-8, Issue 7 2025 PP 29-37	ISSN 2581-3226	2025	Peer Review	Sana Pathan and <b>N.B. Hirulkar</b>
32	Ethnopharmacological application folk medicines available in central India  Acta Scientific Microbiology	Acta Scientific Microbiology  ISSN 2581-3226  Vol-8, Issue 7 2025 PP 40-46	ISSN 2581-3226	2025	Peer Review	Jayashri A. Lad And <b>N.B. Hirulkar</b>
33	Evaluation of Natural Antioxidants properties of Tridax procumbens L. through phytochemical and FRP analysis	Research Journal of Pharmaceutical, Biological and Chemical Sciences  ISSN 0975-8585  Vol-16 Issue 12 – 2025 PP 126-132	ISSN 0975-8585	2025	Peer Review	Swati N. Hade and <b>N.B. Hirulkar</b>
34	Antimicrobial and phytochemical properties of Psidium guajava L	International Journal of Advance Research in Biological Sciences  ISSN 2348-8069 Vol- 12 Issue 12- 2025 PP 12-21,	ISSN 2348-8069	2025	Peer Review	Purva M. Dewang and <b>N.B. Hirulkar</b>
35	Analysis of Cultural Traits in Bacterial Isolates for preliminary identification and classification	International Journal of Advance Research in Biological Sciences  ISSN 2348-8069  Vol- 12 Issue 12- 2025 PP 22-29,	ISSN 2348-8069	2025	Peer Review	Sujata D. Palheriya and <b>N.B. Hirulkar</b>
36	Antimicrobial Profiling of Green tea and Arabica green coffee	International Journal of Advance Research	ISSN 2348-8069	2025	Peer Review	Trupti Vasant Bisani and <b>N.B. Hirulkar</b>

	beans extract against some pathogens.	in Biological Sciences ISSN 2348-8069 Vol- 12 Issue 12-2025 PP 1-11,				
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**Book Published by National Publishers**

Sr. No.	Title of Book	Name of publisher	Year	ISBN No.	No. of Author (s)	Authorship
1	Microbiology Biotechnology Text Book	Central Techno Publication, Nagpur	2017	ISBN 978-81-932578-1-7	02	First Author
2	Microbiology Immunology Text Book	Central Techno Publication, Nagpur	2017	ISBN 978-81-932578-0-0	02	First Author
3	Microbiology	Sai Jyoti Publication	2024	ISBN978-93-48367-46-4	04	Third Author
4	Microbiology	Sai Jyoti Publication	2025	ISBN978-93-49617-36-0	04	Third Author

**Chapter in Edited Book**

Sr. No.	Title of Book	Name of publisher	Year	ISBN No.	No. of Author (s)	Authorship
1	Recent Advanced Field of Life Sciences- Vol I (Chapter 9)	Sai College, Bhilai CG	2024	ISBN9788195738632	01	Single Author
2	Recent Advanced Field of Life Sciences- Vol I (Chapter 5)	Sai College, Bhilai CG	2024	ISBN9788195738632	02	First Author
3	Innovative Trends in Pure Sciences	Taran Publication Delhi	2024	ISBN 97881199554	01	Single Author

## Editor of books by National Publisher

Sr. No.	Title of Book	Name of publisher	Year	ISBN No.	No. of Author (s)	Authorship
1.	Role of Microbial Technology in Sustainable Agriculture: Challenges and Opportunities	Nabira Mahavidyalaya, Katol	2015	ISBN 978-93-81432-87-7	05	First Author
2	International conference on Functional Material 2024,	Nabira Mahavidyalaya, Katol	2024	ISBN 978-81-95-7406-7-3	04	Second Author

## Conferences Attended/ Presentations (National / International)

- 1) International Symposium on **Microbial Diversity: Opportunities, Challenges and Relevance in New Millennium**, Nov., 2004. Department of Post Graduate Studies and Research in Biological Science, Rani Durgavati University, Jabalpur (MP). India. (Poster presentation).
- 2) Association of Microbiologists of India, **45<sup>th</sup> Annual Conference**, Nov., 2004. National Dairy Research Institute, Karnal (HR), India. (Poster presentation).
- 3) **Second Convention, Biotech Research Society of India (BRSI)**, 2005. Anna University, Chennai. (Poster presentation).
- 4) Association of microbiologists of India, **46<sup>th</sup> Annual Conference Microbiotech**, 2005. Department of Microbiology, Osmania University, Hyderabad-7. (Poster presentation).
- 5) National seminars on **New Horizons in Life Science**, 2005. Government Post Graduate College Narsinghpur (MP). (Poster presentation).
- 6) National Conference on **Microbial Technology for Sustainable Agriculture**, 2006. Department of Microbiology, DBF Dayanand College of Science, Solapur (MS). (Poster presentation).
- 7) **Vaigyanic tatha Takniki Shabdawali Ayog**, Ministry of Human Resources and Development, Sep. 2006. Regional Research Laboratory, Tiruvananthapuram. (Oral)
- 8) 3<sup>rd</sup> Convention of BRSI and International Conferences on **Exploring Horizons in Biotechnology: A Global Venture**, Nov., 2006. BRD School of Bioscience, Sardar Patel University, Vallabh Vidyanagar (Gujarat). (Poster presentation).
- 9) Association of microbiologists of India, **47<sup>th</sup> Annual Conference Microbiotech**, 2006. Department of Biotechnology and Bioinformatics, Barkatullah University, Bhopal (MP). (Poster presentation).

- 10) National Seminar on **Role of Biotechnology in Waste Water Management**, Feb., 2007. Department of Microbiology and Biotechnology, Dhote Bandhu Science College, Gondia (MS). (Poster presentation).
- 11) National Seminar on **Emerging Trends at the Interface of Biotechnology**, Feb., 2007. Department of Microbiology, G.B. Patel Science College, Shahada (MS). (Poster presentation).
- 12) **3 rd National Seminar and Intellectual property fair on Green Pharmacy** BRNSS contract research Center, B.R. Nahata college of Pharmacy, Mandsaur MP, 2007.
- 13) **'Biotech Drugs: Need for change in strategies'** IFAC-Core in Green Pharmacy, B.R. Nahata college of Pharmacy, Mandsaur MP in 2008.
- 14) National Workshop on **'Techniques in Industrial Biotechnology'** Mandsaur Institute of Science and Technology, Mandsaur, MP. 2009
- 15) **'Present scenario of quality assurance in higher education'** NAAC sponsored National Seminar, B.R. Nahata college of Pharmacy, Mandsaur MP, 2010.
- 16) **"Impact of Pharmaceutical Education on employment: National and International Perspectives"** DST Sponsored National Seminar, Mandsaur Institute of Pharmacy , 22 nd Dec. 2010.
- 17) **"Advances in Life Sciences for Sustainable Development"** National Conference at S.K. Arts Science and Commerce College, Akola, India, 11-12 Oct. 2011.
- 18) UGC sponsored national conference on **"Pharmacogenomics: revolutionizing Personalized Medicine"** at Nabira Mahavidyalaya, Katol, Dist. Nagpur, 21-22 Sept. 2012. (Poster presentation)
- 19) UGC Sponsored National conference on **"Molecular Biology Techniques: Concept and Application "** at DBSC, Gondia, Feb 2013.
- 20) UGC Sponsored National Seminar on "PCR and its application" at Sindhu Mahavidyalay Katol in Dec. 2014.
- 21) UGC Sponsored National conference on **"Role of Microbial Technology in sustainable agriculture: Challenges and opportunities"** at Nabira Mahavidyalaya Katol Oct. 2015
- 22) RTM Nagpur University Microbiology Teacher Association University Level Workshop on "DBT Sponsored National Conference on "Recent trends in Biotechnology and Biodiversity (NCBB-2017) Shri Shivaji Science College, Amravati sept.2017.
- 23) One Day National Seminar on "Diversity of Environmental allergens And Its Threat to Human Health" at Taywade College Koradi Feb 2019.
- 24) One Day National Workshop on "Fundamentals of IPR" Nabira Mahavidyalaya, Katol 2020.

## **Declaration**

**I hereby declared that all the aforesaid information's are true and correct to the best of my knowledge and belief.**

**(Dr. Naveenkumar B. Hirulkar)**

Date\_\_\_\_\_