

## BIO -DATA



- 1. NAME** : Dr. (Mrs.) R. S. Bendre
- 2. DATE OF BIRTH** : 10<sup>th</sup> May 1966
- 3. INSTITUTION** : North Maharashtra University,  
Jalgaon
- 4. PRESENT DESIGNATION** : Sr. Professor and Head,  
Dept. of Pesticides and Agrochemicals,  
School of Chemical Sciences,
- 5. NATIONALITY** : Indian
- 6. EDUCATIONAL QUALIFICATION : M.Sc., Ph.D.**

Degree	University	Year of Passing	Class & % of Marks	Subject
B.Sc.	University of Pune	1985	I (71.55)	Chemistry
M.Sc.	University of Pune	1987	I (62.85)	Inorganic Chemistry
Ph.D.*	University of Pune	1993	---	Chemistry

**\*Title of Ph. D Thesis:** Structural Studies on Transition Metal Complexes of Biological Relevance

**\*Research Supervisor:** Prof. Subhash Padhye  
Department of Chemistry,  
Pune

### 7. EXPERIENCES :

#### D) TEACHING : 28 years (at Post-Graduate level)

Sr. No.	Designation	Institution	Period From-To	Duration
1	Lecturer	University of Pune	04/11/1991 To 31/12/1991	02 months
2	Lecturer	North Maharashtra University	07/08/1993 To 26/07/1998	05 years
3	Senior Lecturer	North Maharashtra University	27/07/1998 To 26/07/2003	06 years
4	Reader (Associate professor)	North Maharashtra University <b>Head</b> , Department of Pesticides & Agrochemicals	27/07/2003 To 30/01/2011	7 Years, 6 Months
5	Professor	North Maharashtra University <b>Head</b> , Department of Pesticides & Agrochemicals	31/01/2011 To 12/01/2021	10 Years
6	Sr. Professor	North Maharashtra University <b>Head</b> , Department of Pesticides & Agrochemicals	Since 12/01/2021	---

### Subjects Taught:

Pesticides Formulations, Fertilizers, Biopesticides, Pesticides Residues, Biochemistry and Toxicology of Pesticides & Inorganic Chemistry/Industrial Inorganic Chemistry

### II) ALLIED:

a)	<b>Extension work, Co-curricular and extra-curricular activities carried out:</b>	
i)	Worked as <b>Co-ordinator</b> for activities conducted under <b>National Science Day celebration</b> , sponsored by <b>Science and Technology Cell, Government of Maharashtra</b>	
	❖	“Popular Lectures/Posters ‘Clean Energy Options and Nuclear Safety ’March 2012
	❖	“Lecture series on Safety in Laboratory” 3 <sup>rd</sup> March 2009
	❖	“Pathnatya” - 28 <sup>th</sup> Feb. to 4 <sup>th</sup> Mar. 2006
	❖	“Vidnyan Yatra” - 28 <sup>th</sup> Feb. to 5 <sup>th</sup> Mar. 2004
	❖	“Lecture Series” - 28 <sup>th</sup> Feb. to 22 <sup>nd</sup> Mar. 2003
	❖	“Krishi Vidyan Yatra” - 28 <sup>th</sup> Feb. to 5 <sup>th</sup> Mar. 2000.
ii)	Active participation in <b>Tree Plantation</b> .	
iii)	Coordination of <b>Geet-Gayan Samitee</b> as Chairman for Convocation and Other Events till establishment of Dept. of Music.	
b)	<b>Activities concerning corporate - like such as Hostel -Warden ship, Guidance bureau, Gymkhana, N.S.S. etc.:</b>	
	❖	<b>First Rector</b> of Girls’ Hostel from June 1998 to Jan. 2005 and since July
	❖	Worked as <b>Coordinator</b> , Training & Placement.
c)	Active participation in the preparation of <b>FIST</b> proposal of <b>DST</b> and <b>SAP</b> of <b>UGC</b> and <b>NAAC</b> and <b>XI</b> plan of <b>UGC</b> and their presentations.	
d)	Worked as reviewer for The Pesticides Encyclopedia - A Govt. of India Project – Chief Editor Dr. Vasant Gowarikar.	
e)	<b>Conferences:</b> <ul style="list-style-type: none"><li>• Worked as <b>Treasurer</b> for 18<sup>th</sup> Annual <b>Conference of Indian Council of Chemists</b> at North Maharashtra University, Jalgaon.</li><li>• Member of organizing committee of <b>RTSOC</b>, <b>CV Raman</b> memorial lecture series, <b>DAAD-2008</b>, <b>NIPEC</b>, <b>Gold-CT</b>, and <b>Avishkar</b>.</li><li>• Convenor, Workshop on</li><li>• Member of organizing committee Workshop conducted by <b>Women Study Centre</b>, North Maharashtra University, Jalgaon</li><li>• Chairperson, Environmental Studies session, at <b>ICPAC</b>, Mauritius 2010 and Port blare</li></ul>	
e)	<b>Examination:</b> Working as <b>Chairman</b> of Board of Exams and Paper Setters for M.Sc. ‘ <b>Pesticides &amp; Agrochemicals</b> ’ Examination.	
f)	<b>Consultancy work carried out</b>	
	❖	Guiding <b>Industry</b> sponsored M.Sc. projects. [ <b>Indofill Chemicals Company</b>
	❖	<b>Rallis (India)</b>

❖	Service of <b>Pests control</b> provided to various departments on the Campus. Soil Testing, Micronutrient analysis, Quantitative analysis of Industrial Samples
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### III) RESEARCH: 25 Years

#### A) Research Guidance for Ph. D/M. Phil.:

	M. Phil.	Ph. D
<b>Students Guided</b>	<b>02</b>	<b>18</b>
<b>Thesis Submitted</b>	<b>00</b>	<b>01</b>
<b>Students Working</b>	<b>--</b>	<b>07+1*</b>

#### B) Research Fellowships/Awards:

<b>a.</b>	Junior Research Fellowship	:	DNES sponsored project - 3 years
<b>b.</b>	Senior Research Fellowship	:	Award of CSIR- SRF - 3 years
<b>c.</b>	Best Funding Award 2013-14	:	North Maharashtra University
<b>d.</b>	Best Publication Award 2014-15	:	North Maharashtra University
<b>e.</b>	Best Publication Award 2015-16	:	North Maharashtra University
<b>f.</b>	Best Publication Award 2016-17	:	North Maharashtra University
<b>g.</b>	UGC-BSR Mid-Career Award Grant 2019	:	University Grant Commission
<b>h.</b>	Best Publication Award 2017		KBC North Maharashtra University
<b>i.</b>	Best Publication Award 2018		KBC North Maharashtra University

#### C) Areas of research:

❖	Development of Pesticide Formulations
❖	Natural products and their derivatives as safer pesticides, IGRs and PGRs
❖	Metal Complexes of Biological Relevance (DNA interaction Studies, SOD, WOC mimics and Antimicrobial agents).
❖	Use of metal complexes as catalysts
❖	Application of natural products in the synthesis of biologically Active Organic and Inorganic compounds. Particularly anticancer Compounds.

In past 25 years I am actively working at the newly established University, in the field of Synthetic Chemistry (Organic, Inorganic, **and Pesticides and Agrochemicals**) and natural products. The work is also on synthesis, characterization and activities of coordination compounds as mimics of superoxide dismutase (SOD) and water oxidation complex (WOC). Research work on botanical pesticides involves evaluation of Pesticidal efficacy of plant extract against microbial and stored grain pests. Derivatization of natural molecules such as lawsone and Monoterpenoids such as

Thymol, Carvacrol and Eugenol has also been carried out to improve biological activities such as antimicrobial/antidiabetic/anticancer/ PGR, Insect Growth Regulators (IGRs) and to observe structure - activity co-relationship.

The research work on Pesticides Formulations involves development of granular formulations using fly ash as diluents, use of starch and its modification for safe and effective delivery system of bioactive molecules (Pesticides) and development of bio-based polymers for microencapsulation of bioactive molecules.

## 8. RESEARCH PROJECTS:

### A) Completed:

Sr. No.	Project Title	Funding Agency	Amount	Sanction No. (Period)
1.	Chemical Nucleases: Synthesis, Characterization and DNA Cleavage Activity of Coordination Compounds involving Novel Polydentate Ligands	University Grant Commission, New Delhi	Rs. 11.53 lakh	42-374/2013(SR) (2013-2016)
2.	Design and Development of Novel Insect Growth Regulators: Synthesis and Structure Activity Correlation of Benzoyl Phenyl Ureas, 1,2-Diacyl Hydrazines, Thiodiazoles and Oxadiazoles Derived from Naturally Occurring Phenolic Monoterpenoids	CSIR, New Delhi	Rs. 10.75 lakh	02(0130)/13/ EMR-II 2013-2016
3.	Eco-friendly Pest Management: Development of Carvacrol Derivatives as Insect Growth Regulators	UGC, New Delhi	Rs. 6.78 lakh	2007- 2010
4.	Designing Functional Mimics of Superoxide Dismutase Enzyme	UGC, New Delhi	Rs. 3.39 lakh	2003- 2006
5.	Studies on Dioxochromium (VI) Quinone monoxime complexes as Potential Oxidation Catalysts	UGC, New Delhi	Rs. 0.15 lakh	1996-99
6.	Novel Methods for the Synthesis of Fullerenes : Pyrolysis & Catalytic Approaches	TWAS	\$ 4000	1995-97
7.	Gold Vs Platinum Complexes as anticancer agents	UGC BSR Mid-Career Award Grant UGC, New Delhi	Rs 10 Lacs	F.19-236/2019 (BSR) 30 May 2019 - 29 May 2021

### Coordinator:

Sr. No.	Project Title	Funding Agency	Amount Rs.	Sanction No. (Period)
1	Synthesis and development of bioactive compounds	University Grant Commission, New Delhi	1.92,000,00/-	F.4-6/2015/DSA-I (SAP-II) (2015-2020)

**Industry Sponsored Project - VVF India Ltd. Mumbai (Feb 2017- July 2017) [Rs. 2.50 lakh]**

## 9. Membership of Scientific Societies

- ❖ Indian Council of Chemists (LF/432)
- ❖ Catalysis Society of India (479545)
- ❖ Indian Association of Solid-State Chemistry and Allied Sciences, Jammu (LM-278)
- ❖ Society of Material Chemistry (LM 886)
- ❖ Fellow of Maharashtra Academy of Sciences – (BLF 1089)
- ❖ Association of Chemistry Teachers – (ACT LM 047)

## 10. RESEARCH PUBLICATION:

<b>Total : 80</b> ..... <b>National : 15</b> <b>International : 59</b> <b>Reviews : 03</b> <b>Book(Chapter): 03</b> ..... <b>Articles : 03</b> <b>Patents : 02 (under Preparation)</b>	<u>Citation indices</u>	All	Since 2016
	<u>Citations</u>	2235	1101
	<u>h-index</u>	20	17
	<u>i10-index</u>	38	24
	2014   2015   2016   2017   2018   2019   2020		

Sr.No	Journal	Papers	Impact Factor	ISSN No.
1.	Biosensors and Bioelectronics	01	9.518	0956-5663
2.	Sensors and actuators b chemical	01	6.393	0925-4005
3.	ChemPhysChem	02	3.077	1439-7641
4.	RSC Adv.	02	3.049	2046-2069
5.	J. Fluorescence (online)	01	2.1	1053-0509
6.	<i>Cryst. Eng.Comm</i>	01	4.038	
7.	BMC Letters	01	2.554	
8.	Polyhedron	02	2.067	0277-5387
9.	Jr. Envi. and Health Sciences Part B	01	1.463	1521-6950
10.	Acta Cryst	04	0.41	
11.	J. of Asian Natural Products Res.	01	1.170	
12.	J. Sci. Ind. Res.	01	0.587	
13.	Synthesis and Reactivity in Inorganic, Metal-organic and Nano-material Chemistry	01	0.518	
14.	Metal Based Drugs	01	0.68	
15.	Inorg.Chem.	01	4.601	
16.	Coord. Chem. Rev.	01	13.476	
17.	J. Cryst. Spect. Res.	01	0.46	
18.	Inorg. Chim. Acta.	01	2.046	
19.	Crystal Growth & Design	01	4.153	
20.	Journal of Applicable Chemistry	02	1.20	2278-1862
21.	New Journal of Chemistry	01	3.086	
22.	Asian Journal of Biochemical and Pharmaceutical Research	01	0.456	2231-2560
23.	Res. J. Pharm., Biol. And Chem. Sci.	01	0.35	
24.	Photochemical and photo biological Sci.	01	2.939	1751-1097
25.	Medicinal chemistry	02	1.72	2161-0444
26.	Nat. Prod. Chem. Res.	01	1.24	2329-6836

27.	Research on Chemical Intermediates	04	2.064	0922-6168
28.	Modern chemistry and Applications	02	1.13	2329-6798
29.	Aromatic & Medicinal Pant	01	1.52	2167-0412
30.	Environ Chem Lett	01	3.59	1610-3653
31.	Molecular Diversity	01	2.229	
32.	Transition Metal Chemistry	01	1.38	
33.	Asian Journal of Research in Chemistry and Pharmaceutical Sciences	01	00	2349 – 7106
34.	Asian Journal of Research in Chemistry (Online)	01	00	0974-150 0974-4169(Print)
35.	J. of Molecular Str.	01	2.12	
36.	Medicinal & Aromatic Plants	01	1.52	
37.	Bioorg. Med. Chem. Lett.	01	2.55	
Total Impact Factor			<b>91.454</b>	

### A) National and International Publications:

80	Synthesis, crystal structure, and antimicrobial activity of palladium metal complexes of sulfonyl hydrazone ligands Samina Karimkha Tadavi, Ratnamala Subhash Bendre, Satish Vittal Patil, Shubha Gaguna and Jamatsing Darbarsing Rajput European Journal of Chemistry 11 (4) (2020) 377-384 [I.F. 0.4474]
79	A green tactic for the synthesis of classical 3,3- bisindolylmethanes in waste curd water. Jamatsing Rajput, Sunil Koli, Bhavana Mohite, <b>Ratnamala Bendre</b> , Satish Patil, Vikas Patil SN Applied Sciences, ISSN 2523-3963, 1(10), 1187. August 2019 [I.F.]
78	Synthesis, characterization, and antioxidant activity of thymol-based paracetamol analogues Pradnya S. Sathe, Jamatsing D. Rajput, Shubha S. Gunaga, Harun M. Patel, <b>Ratnamala S. Bendre</b> Research on Chemical Intermediates, ISSN 1568-5675, 45(260). 1–12, 13 August 2019 [I.F. 2.064]
77	Carvacrol: An Excellent Natural Pest Control Agent <b>Ratnamala Bendre</b> , Suresh Bagul and Jamatsing Rajput, ISSN 2329-6836, 6(6): 1-3, December 2018 [I.F.]
76	Controlled release study of phenol formaldehyde-based microcapsules containing various loading percentage of core cypermethrin at different agitation rates. Karandikar PS, Rajput JD, Bagul SD, Gite VV, <b>Bendre RS</b> . Polymer Bulletin. [I.F. 1.589] August 2018:1-8.
75	Clean Synthesis of Coumarin-3-carboxylic acids in Water Extract Rice (WERS) Manohar Patil, Suresh Bagul, Jamatsingh Rajput, <b>Ratnamala Bendre</b> Green Materials, [Accepted July-2018]
74	Synthesis, Characterization and Antioxidant Potency of Naturally Occurring Phenolic Monoterpenoids Based Hydrazone Motifs

	Manohar Patil, Dr. <b>Ratnamala Bendre</b> , Medicinal Chemistry 8(7): 177-180 2018 [July-2018] [I. F. 1.91]
73	Monoterpenoid derivative based ratiometric fluorescent chemosensor for bioimaging and intracellular detection of Zn <sup>2+</sup> and Mg <sup>2+</sup> ions Mr Manohar Patil, Mr Karunesh Keshav, Mr Mukesh Kumar Kumawat, Professor <b>Ratnamala Bendre</b> , Dr. Shilpa Bothra, , Dr Suban Sahoo, Professor Rohit Srivastava, Dr Jamatsing Rajput, Dr Anil Kuwar. Journal of Photochemistry and Photobiology A: Chemistry 364, May 2018, 758-763[I. F. 2.89]
72	Synthesis, Characterization and Investigation of Anti-Oxidant Activity of Hydrazide–hydrazone Derivatives of 2-(2-Isopropyl-5-methyl phenoxy) Acetohydrazide. Pradnya S. Sathe, Umesh D. Pete, <b>Ratnamala S. Bendre</b> Asian J. Research Chem.: 11(3) 533-538. 30 June 2018
71	Highly selective nicotinohydrazide based ‘turn-on’chemosensor for the detection of bioactive zinc (II): Its biocompatibility and bioimaging application in cancer cells. Patil M, Bothra S, Sahoo SK, Rather HA, Vasita R, <b>Bendre R</b> , Kuwar A. Sensors and Actuators B: Chemical. 1;270:200-6 1 Oct 2018
70	Facile Syntheses and Molecular-Docking of Novel Substituted 3, 4-Dimethyl-1H-pyrrole-2-carboxamide/carbohydrazide Analogues with Antimicrobial and Antifungal Properties. Bhosale JD, Dabur R, Jadhav GP, <b>Bendre RS</b> Molecules.; 23(4):875. [I. F- 2.861] 11April 2018
69	Insect growth regulatory activity of carvacrol-based 1, 3, 4-thiadiazoles and 1, 3, 4-oxadiazoles. Bagul SD, Rajput JD, Srivastava C, <b>Bendre RS</b> Molecular diversity:1-9. [I. F- 1.752] 23Mar 2018
68	Synthesis, Characterization and In-Vitro Antidiabetic Studies of Vanadium Complexes derived from N <sub>2</sub> O <sub>2</sub> donor Ligands. Pawar, Shashikant P., Tryambakrao J. Patil, and <b>Ratnamala S. Bendre</b> . Asian Journal of Research in Chemistry, no. 1 (2018): 8-14. 11 Feb 2018
67	Design, Synthesis and Antioxidant Activity Of N, N'- Diacylhydrazines Containing 2-(2-Isopropyl-5-Methyl Phenoxy) Moieties, A Solvent Free Green Synthetic Approach. <b>Ratnamala S. Bendre</b> , Pradnya S. Sathe, Suresh D.Bagul. Asian Journal of Research in Chemistry and Pharmaceutical Sciences. 5(3), , 106-113, Dec-2017
66	Synthesis, crystal structures and biological activities of transition metal complexes of a salen-type ligand, <b>Ratnamala S. Bendre</b> , Samina K. Tadavi, · Manohar M. Patil. Transition Metal Chemistry, 43 (2018) 83-89, [I. F- 1.358] 1 Feb 2017.

65	<p>Perspectives on medicinal properties of natural phenolic monoterpenoids and their hybrids. Rajput, J. D., Bagul, S. D., Pete, U. D., Zade, C. M., Padhye, S. B., &amp; <b>Bendre, R. S.</b> (2018). Molecular diversity, 22(1), 225-245. [I.F. - 2.02]. 1 Feb 2018</p>
64	<p>Synthesis and characterization of a novel schiff base of 1,2-diaminopropane with substituted salicylaldehyde and its transition metal complexes: Single crystal structures and biological activities, Samina K. Tadavi, Abhijit A. Yadav, <b>Ratnamala S. Bendre</b>, Journal of Molecular Structure, 1152 (223- 231) [I.F.- 1.75] 15 January 2018.</p>
63	<p>Synthesis of 3-carboxycoumarins at room temperature in water extract of banana peels, Suresh D. Bagul, Jamatsing D. Rajput, <b>Ratnamala S. Bendre</b> Environ Chem Lett. 15(4):725-31. [I.F- 3.5] 1 May 2017</p>
62	<p>Synthesis, characterizations, biological activities and docking studies of novel dihydroxy derivatives of natural phenolic monoterpenoids containing azomethine linkage. Jamatsing D. Rajput, Suresh D. Bagul, Amar A. Hosamani, Manohar M. Patil and <b>Ratnamala S. Bendre</b>, Research on Chemical Intermediates, 43(10):5377-93. [I.F -1.83] 1 March 2017.</p>
61	<p>Design, synthesis, biological screenings and docking simulations of novel carvacrol and thymol derivatives containing acetohydrazone linkage. Jamatsing D. Rajput, Suresh D. Bagul, Amar A. Hosamani, Manohar M. Patil and <b>Ratnamala S. Bendre</b>, Research on Chemical Intermediates, 43(8), 4893–4906 [I.F -1.83] 1 Aug 2017.</p>
60	<p>Crystal Structure, Spectral Characterization and Biologically Studies of Mononuclear Transition Metal Complexes Derived from New N2O2 Type Ligand Samina K Tadavi, Jamatsing D Rajput, Suresh D Bagul, Jaiprakash N Sangshetti, Amar A Hosamani and <b>Ratnamala S Bendre</b> Modern Chemistry &amp; Applications, 5 (1) (2017) [I.F -2.07]. 2 January 2017</p>
59	<p>Synthesis, crystal structures, biological screening and electrochemical analysis of some salen-based transition metal complexes Samina K. Tadavi, Jamatsing D. Rajput, Suresh D. Bagul, Amar A. Hosamani, Jaiprakash N. Sangshetti, and <b>Ratnamala S. Bendre</b>, Research on Chemical Intermediates, 43 (2017) 4863-4879, [I.F -1.83], 1 Aug 2017</p>
58.	<p>Comparative Anti-Proliferative Studies of Natural Phenolic Monoterpenoids on Human Malignant Tumour Cells. Jamatsing D Rajput, Suresh D Bagul, Samina K Tadavi and <b>Ratnamala S Bendre</b> Medicinal &amp; Aromatic Plants 2016; 5:2167-0412 [I.F.1.52]. 20 Dec 2016.</p>



57.	Synthesis, Characterization and Antioxidant Activity of Carvacrol Containing Novel Thiadiazole and Oxadiazole Moieties. Suresh DB, Jamatsingh DR, Pravin SK, <b>Ratnamala S Bendre</b> Modern Chemistry and Applications 28;4(193):2 [I.F -2.07]. 28 Nov 2016.
56.	Design, synthesis and biological activities of novel 5-isopropyl-2-methylphenolhydrazide-based sulfonamide derivatives. Suresh D Bagul, Jamatsing D Rajput, Samina K Tadavi and <b>Ratnamala S Bendre</b> Research on Chemical Intermediates 1;43(4):2241-52. [I.F -1.83]. 12 October 2016.
55.	Outlooks on Medicinal Properties of Eugenol and its Synthetic Derivatives. <b>Ratnamala S Bendre</b> , Jamatsing D Rajput, Suresh D Bagul and Pravin S Karandikar. Nat. Prod. Chem. Res. 2016;4(212):2. [I.F.-1.24]. 15 March 2016
54.	Design, Synthesis and Biological Evaluation of Novel Class Diindolyl Methanes (DIMs) Derived from Naturally Occurring Phenolic Monoterpenoids Jamatsing D Rajput, Suresh D Bagul, Samina K Tadavi, Pravin S Karandikar and <b>Ratnamala S Bendre</b> Med Chem. 2016, 6(2): 123-128 [I.F.-1.72] 19 Feb. 2016.
53.	Partial Rotation of Isopropyl Group in the Solid State: Single Crystal to Single Crystal Phase Transformation in a Carvacrol Derivative. Umesh Pete, Amol G. Dikundwar, Vaishali Sharma, Shridhar P. Gejji, <b>R. S. Bendre</b> , Tayur N. Guru. Row Cryst. Eng.Comm. 2015, 17, 7441-7447 [ I.F.-4.038] 31 Aug 2015
52.	A highly selective fluorescent 'turn-on' chemosensor for Hg <sup>2+</sup> based on a phthalazinhydrazone derivative and its application in human cervical cancer cells imaging Dipesh Mahajan, Nilesh Khairnar, Banashree Bondhopadhyay, Suban K.Sahoob, Anupam Basu, Jasminder Singh, Narinder Singh, <b>Ratnamala Bendre</b> , Anil Kuwar New Journal of Chemistry, 2015, 39, 3071-3076 [I.F.-3.086] 9 Feb 2015
51.	A novel phthalazine based highly selectivechromogenic and fluorogenic chemosensor for Co <sup>2+</sup> in semi-aqueous medium: applicationin cancer cell imaging Smita Patil, Rahul Patil, Umesh Fegade, Banashree Bondhopadhyay, Umesh Pete, Suban K. Sahoo, Narinder Singh, Anupam Basu, <b>Ratnamala Bendre</b> and Anil Kuwar Photochem. Photobiol. Sci.14, 439 [I.F-2.939] 19 Nov 2015
50.	A novel chromogenic and fluorogenic chemosensor for detection of trace water in methanol Umesh Fegade, Smita Patil, Rajinder Kaur, Suban K. Sahoo, Narinder Singh, <b>Ratnamala Bendre</b> , Anil Kuwar Sensors and Actuators B: Chemical, 2015, [I.F-3.84] 1 April 2015

49.	2-((E)-(2-aminophenylimino) methyl)-6-isopropyl-3-methylphenol based fluorescent receptor for dual Ni <sup>2+</sup> and Cu <sup>2+</sup> recognition: Nanomolar Detection. Shashikant Pawar, Umesh Fegde, Vimal Kumar, Narinder Singh, <b>Ratnamala Bendre</b> , Anil Kuwar Polyhedron, 2015, 87, 79-85 [I.F-2.057, C-00] 17 February 2015
48.	A fluorescent and Colourimetric Sensor for Nanomolar Detection of Co <sup>2+</sup> in Water. Anil Kuwar, Rahul Patil, Amanpreet Singh, <b>Ratnamala Bendre</b> , Narinder Singh ChemPhysChem 2014, 15, 3933 –3937 [I.F. 3.36] 15 Dec 2014
47.	Novel fluorescent chemosensing of CN anions with nanomolar detection using the Zn <sup>2+</sup> -isonicotinohydrazide metal complex Nilesh Khairnar, Kundan Tayade, Shilpa Bothra, Suban K. Sahoo, Jasminder Singh, Narinder Singh, <b>Ratnamala Bendre</b> and Anil Kuwar RSC Adv., 2014, 4, 41802–41806 [I.F. 3.7] 14 Aug 2014
46.	2,2-(Hydrazine-1,2-diylidenedimethylidene) bis(6-isopropyl-3-methylphenol) based selective dual-channel chemosensor for Cu <sup>2+</sup> in semiaqueous media† Umesh Fegade, Anu Saini, Suban K. Sahoo, Narinder Singh, <b>Ratnamala Bendre</b> and Anil Kuwar RSC Adv., 2014, 4, 39639–39644 [I.F. 3.7] 06 Aug 2014
45.	Green Synthesis and Characterization of Some 4-Substituted-N-aryl-1,3-thiazole-2-amine Derivatives Dipesh P. Mahajan and <b>R. S. Bendre</b> , Asian Journal of Biochemical and Pharmaceutical Research, 2014, 4 (2), 103-108 (ISSN: 2231-2560) [I.F. 0.456] 09 June. 2014
44.	Synthesis and Antimicrobial Study of Some Substituted 2-Amino Benzothiazole Derivatives Dipesh P. Mahajan and <b>R. S. Bendre</b> , Journal of Applicable Chemistry, 2014, 3 (3): 1239-1245 (ISSN: 2278-1862) [I.F. 1.20] 17 May, 2014
43	Highly selective and ratiometric chemosensor for selective ‘naked-eye’ and nanomolar detection of Co <sup>2+</sup> in semi-aqueous medium, Smita Patil, Umesh Fegade, Suban K. Sahoo, Amanpreet Singh, Jaromir Marek, Narinder Singh, <b>Ratnamala Bendre</b> , Anil Kuwar ChemPhysChem, 2014, 15, 2230 – 2235 [I.F. 3.36] Aug 2014
42.	Highly selective turn-on fluorescent sensor for nanomolar detection of biologically important Zn <sup>2+</sup> based on isonicotinohydrazide derivative: Application in live cell imaging Kundan Tayade, Suban A.S. Kuwar, K.C. Tayade and <b>R.S.Bendre</b> Biosensors and Bioelectronics, 2014, 61, 429–433 [I.F. 6.45] 5 May, 2014
41.	Synthesis, Characterization and Biological activities of Novel substituted formazans of 3,4-dimethyl-1H-pyrrole-2-carbohydrazide Derivatives Jitendra D Bhosale; Amey R Shirolkar; Umesh D Pete; Chetan M Zade; Dipesh P. Mahajan; Chakradhar D Hadole; Sharad D Pawar; Umesh D Patil; Rajesh

	Dabur; <b>Ratnamala S Bendre</b> Journal of Pharmacy Research 7 (2013) 582-587 2013 Jul
40.	Microwave Assisted Improved Method For The Synthesis, Characterization And Antimicrobial Activity Of Substituted Benzimidazole Urea Derivatives Chakradhar D. Hadole, Umesh D. Pete, Chetan M. Zade, Jitendra D. Bhosale, Megharaj S. Kadam and <b>Ratnamala S. Bendre</b> Indo American Journal of Pharmaceutical Research, 2013 3(9) 7201-7209. ISSN : 2231-6876, 30 September 2013
39.	Bio-efficacy Study of Lambda-cyhalothrin EW Formulation against <i>Cnaphalocrocis medinalis</i> on Rice: A Safer and Effective Approach. D. L. Ahire, <b>R. S. Bendre</b> Research & Reviews: Journal of Agricultural Science & Technology, 2013, 2(2), 1-6 (ISSN: 2278 – 2206)
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30.	Identification and Characterization of Two Novel Antimicrobial Compounds from <i>Jasminum grandiflorum</i> L. J.D. Bhosale, Mangesh Khond, T.K. Mandal, <b>R.S. Bendre</b> and Rajesh Dabur World Applied Sciences Journal 13 (1): 47-51, 2011 [ISSN- 1818-4952, EISSN- 1991-6426, Jan. 2011]
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27.	Natural Products- Antifungal Agents Derived From Plants Arif Tasleem, Bhosale J.D., Kumar Naresh, Mandal T.K., <b>Bendre R.S.</b> , Lavekar G.S. and Dabur Rajesh Journal of Asian Natural Products Research, 11: 7, 621-638 (2009) [I.F-1.07, C-13, ISSN-1028-6020, online-1477-2213, July, 2009]
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23.	Synthesis, Antioxidant properties and Antiproliferative activities of tetrameric Copper and Copper-zinc metal complexes of catecholamine Schiff base ligands. S. Dutta, <b>R. Bendre</b> , S. Padhye, F. Ahmed and F. Sarkar Synthesis and Reactivity in Inorganic, Metal-organic and Nano-material Chemistry 35 (1), 3-10 (2005) [I.F- 0.518 , C-05]
22.	Evaluation of Antimicrobial Activity of Organic Extracts of Leaves of <i>Aristolochia bracteata</i> . S.R.Shimpi, L.S.Chadhari, S.M.Bharambe, A.T.Kharche, K.P.Patil, <b>R.S.Bendre</b> and P.P.Mahulikar Pesticide Research Journal 17, 16-18 (2005) [ISSN Online-2249-524X, ISSN Print- 0970-6763]
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20.	2-Formylthymol oxime. Ray J. Butcher, <b>Ratnamala S. Bendre</b> and Anil S. Kuwar Acta Cryst. E 61, o3511-o3513 (2005). [I.F-0.41, C-06]
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18.	Effect of Pharmaceutical Industry Effluents on Germination & Growth of <i>Triticum aestivum</i> & <i>Phaseolus vulgaris</i> . Shimpi S.R., Mahulikar P.P. and <b>Bendre R.S.</b> Bull. Env. Sci. 1, 47-49 (2003)
17.	Antimicrobial Efficacy Alcoholic Extracts of <i>Lantana camara</i> . Seema R. Shimpi, Kshama M. Chavan, M. J. Khairnar, N. A. Sonawane, <b>R.S.Bendre</b> and P. P. Mahulikar Pestology XXVI (10), 47 (2002) [ISSN-0970-3212]
16.	Antimicrobial Potency of Some Carvacrol Derivatives. Vidya P. Nikumbh, Leena S. Chaudhari, Pradnya D. Bhoge, Maya J. Borole, <b>Ratnamala S. Bendre</b> and Promod P. Mahulikar Pesticides Research Journal 14 (2), 225-228 (2002) [ISSN Online-2249-524X, ISSN Print- 0970-6763]
15.	Effect of Sugar Industry Effluents on Germination & Growth of <i>Triticum aestivum</i> & <i>Phaseolus vulgaris</i> . P.P.Patil, S.H. Baviskar, Seema R. Shimpi, Meena R. Govasavi, <b>R.S.Bendre</b> , and P.P. Kumbhar Oriental J. of Chem. 17 (2), 331-333 (2001) [ISSN Online-2231-5039, ISSN Print- 0970-020X]
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13.	Pesticidal Potency of Some Common Plant Extracts P.P.Kumbhar, D.H.Salunkhe, M.B.Borse, M.S.Hiwale, L.B.Nikam, <b>R.S.Bendre</b> , M.V.Kulkarni and P.M.Dewang Pestology, <b>XXIV (6)</b> , 51 (2000) [ISSN-0970-3212]
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11.	Bioassay of Some Plant Extracts and Plant Growth Regulating Potency of After-Extraction-Residues. P.P.Kumbhar, S.N.Desai, <b>R.S.Bendre</b> , H.B.Gavaskar, M.D.Suryawanshi, M.V.Kulkarni and P.M.Dewang Pestology <b>XXIII (8)</b> , 30 (1999). [ISSN-0970-3212]
10.	Crystal Structure of Cationic Complex of $2 [\text{Co}^{\text{III}} (\text{APOTSC})_2]^+ [\text{Co}^{\text{II}} \text{Cl}_4]^{2-}$ Murugkar A., <b>Bendre R.</b> , Kumbhar A., Padhye S., Pritchard R. and Mc Auliffe C.A. Ind. J. Chem. 38A (12), 97 (1999). [I.F-0.617, C- ]
09.	X ray Structure of the Cytotoxic Planar Nickel (II) Complex of 4 N-dimethyl - 2-acetyl pyridine thiosemicarbazone. Murugkar A., <b>Bendre R.</b> , Padhye S. and Groy T. Ind. J. Chem. 38 A (12), 981 (1999). [I.F-0.617, C- ]
08.	Synthesis and Characterization of Coordinatively Unsaturated Copper (II) Complexes of 1,3-Bis (2'-Pyridyl)1,2-Diaza-2-Butane and their Antityrosinase Activity. <b>Ratnamala Bendre</b> , Anupa Murugkar, Subhash Padhye, Pallavi Kulkarni and Meena Karve Metal Based Drugs 5, 59-66 (1998) [I.F-0.68, C-06]
07.	Synthesis, Structure and Magnetic and Redox Properties of Linear Bis-dinuclear Complexes Afforded by Schiff Base Ligands Containing Catecholate and Pyridine or Imidazole Groups. Sylvie Theil, <b>Ratnamala Yerande</b> , Rajeev Chikate, Françoise Dahan, Azzedine Bousseksou, Subhash Padhye and Jean Peer Tuchagues. Inorg.Chem. 36(27), 6279-6286 (1997) [I.F-4.601, C-10]
06.	Thiosemicarbazone complexes of Copper (II): Structural and Biological Studies. Subhash B. Padhye, Rajeev C. Chikate, Pramila B. Sonawane, Avinash S. Kumbhar, <b>Ratnamala G. Yerande</b> and Douglas X. West. Coord. Chem. Rev. 123, 49-71(1993) [I.F-12.744, C-475]
05.	Crystal and Molecular Structural of Anchored Catechol Ligand: 2,3 - Dihydroxy benzenemethanamine (2 - hydroxyl - methyl) Phenyl.

	R.J.Butcher, A.S.Kumbhar, <b>R.G.Yerande</b> , S.B. Padhye, V.G. Puranik and S.S.Tavale J. Cryst. Spect. Res. 22, 725 - 731(1992). [I.F-0.46, C-23]
04.	Functional Models of Water Oxidation In PS II. Subhash Padhye, <b>Ratnamala Yerande</b> , Ullas Hegde, V.V.Klimov, G.Ananyev, S.I.Allknerdiev and S.K.Zarmukhamedov Proceedings of the INDO-US Workshop on “Impact of Global Climate Changes on Photosynthesis and Plant Productivity”. Y. P. Abrol, Govindjee, P. N. Wattal, A. Gnanam, D. R. Ort and A. H. Teramura, Eds. Oxford and IBH Publ.Co., New Delhi, pp 319-333 (1991)
03.	Photochemical Studies on Manganese-Quinone Compounds 1. Photoinduced Intramolecular Electron Transfer in Bis (aqua) Bis (phthiocolato) Manganese (II). <b>Ratnamala Yerande</b> , Mahesh Mulay, Subhash Padhye, P. Ramamurthy and P.Natarajan Indian J. Chem. 30A, 575-578(1991) [I.F-0.617, C- ]
02.	Artificial Photosynthesis: Monomeric Quinone Complexes of Iron (II) and Manganese (II), (III), (IV) Complexes in Photoreactivation of Pea Subchloroplast Particles. <b>Ratnamala Yerande</b> , Ullas Hedge, Subhash Padhye, Visktor Klimov, G. Ananyev, S.I.Allekhverdiev and S.K. Zharmukhamedov. In ‘Recent Advances in Bioenergetic Processes’ G.S.Singhal and T.Ramasarma, eds., Today and Tomorrow Publishers, PP. 179- 184 (1991)
01.	Characterization and Recycle Experiments on the Diacarbonyl Triiodide Iridium (II) Intermediate in the Carbonylation of Ethanol to Propionic acid. Subhash Padhye, <b>Ratnamala Yerande</b> , R.P.Patil, A.A.Kelkar and R.V.Chaudhari Inorg. Chim. Acta. 156, 23-25 (1989) [I.F-1.976, C-04]

#### Research Publication Uploaded in July-2021

1) **Title:** Preparation, characterization and controlled release study of poly (urea-formaldehyde) microcapsules enclosing pretilachlor herbicide

**Journal:** Iranian Polymer Journal

2) **Title:** An efficient synthesis of rearranged new biologically active benzimidazoles derived from 2-formyl carvacrol

**Journal:** Research on Chemical Intermediates

#### Research Articles:

1. “Vruksha-ayurveda: Botanicals as Biopesticides”, R. S. Bendre Re-orientation Training Program, 22-27 February, 2010.
2. “Botanical Pesticides : An Emerging Trend in 21<sup>st</sup> Century” Seema R.Shimpi and **Ratnamala S. Bendre**, Chemical weekly, July 2004

3. "Biopesticides" R.S.Bendre, SOUVENIR of 18 th Annual Conference of Indian Council of Chemists (Dec 27-29, 1999) pp. 39-44.

### Patents:

### Conference / Workshop / Seminars Attended

- 1) Invited Talk-"Current Research in Applied and Fundamental Sciences" at Sandip University Jalgaon. 12<sup>th</sup> and 13<sup>th</sup> July 2021
- 2) Convener, National conference "Advances in Chemical Sciences (ACS-2017)" at School of Chemical Sciences, North Maharashtra University Jalgaon. 4<sup>th</sup> March 2017
- 3) Invited Talk – Exploring the Chemistry of Dream Molecules: Carvacrol in state level conference "Recent Advances in Chemical & Environmental Sciences" at Nutan Maratha College Jalgaon. 8<sup>th</sup> Dec. 2016
- 4) International Conference on GOLD-CT 2014
- 5) International Seminar on New Horizons in Cancer Research - organized during 7-8<sup>th</sup> January 2015 at Abeda Inamdar Senior College, Pune.
- 6) Third Global Sustainable Biotech Congress - organized during 1-5<sup>th</sup> December 2014 at NMU Jalgaon.
- 7) National Conference on Emerging Areas in Chemical Education and Research and National Convention of Chemistry Teachers - organized during 16-18<sup>th</sup> October 2014 at Jaipur.
- 8) Third International Conference on Chemistry for Sustainable Development: Indian Perspective-organized during 11-13<sup>th</sup> June 2014 at Dubai.
- 9) International Conference on Global Opportunities for Latest Developments in Chemistry and Technology- organized during 6-8<sup>th</sup> February 2014 at NMU Jalgaon.
- 10) Invited talk at the International Conference on Sustainable Development SSBT's College of Engineering and Technology, Bambhori, Jalgaon Feb 25-26, 2014.
- 11) First National Conference on Innovations in Chemistry –Laboratory to Society- organized on 11<sup>th</sup> March 2013 at NMU Jalgaon.
- 12) Delivered a Lecture in UGC sponsored 3<sup>rd</sup> National Conference on Recent Advances in Agrobiotechnology for Sustainable Agricultural Practices-organized during 5-6<sup>th</sup> February 2013 at MJ College, Jalgaon.
- 13) Workshop on Project, Thesis and Paper Writing in Chemistry- organized on 9<sup>th</sup> March 2012 at NMU Jalgaon.
- 14) National Conference on Nanomaterials, Industrial Polymers and Eco-friendly Coatings-Perspectives and Challenges- organized on 18<sup>th</sup> February 2012 at NMU Jalgaon.
- 15) Celebration of International Year of Chemistry 2011-organized on 26<sup>th</sup> December 2011 at NMU Jalgaon.
- 16) State Level Conference on Emerging Trends in Chemistry and Chemical Research- organized during 18-19<sup>th</sup> February 2011 at ZBP College Dhule.
- 17) National seminar on Recent Instrumental Techniques in Coordination Chemistry- organized on 23<sup>rd</sup> January 2011 at SCS College, Omerga Dist Osmanabad.
- 18) National Conference on Environmental Innovations for Resource Sustainability- organized during 21-22<sup>nd</sup> January 2011 at NMU Jalgaon.
- 19) International Conference on Pure and Applied Chemistry - organized during July 26-30<sup>th</sup>, 2010 at Mauritius.
- 20) International Conference on Emerging Trends in Chemistry - organized during January 5-7<sup>th</sup>, 2010 at University of Pune, Pune.



- 21) Invited Talk at the Reorientation Training Program By AYUSH, Ministry of Health and Family Welfare, Govt of India, 18-23 January 2010, at Regional Research Institute, Pune (MS) India.
- 22) Workshop on Role of Pesticide Application Technology in Crop Protection: Towards Sustainability in Agriculture - from January 20-22<sup>nd</sup>, 2009 organized by Institute of Pesticide Formulation Technology, New Delhi.
- 23) Workshop on Patent Awareness- organized on 4<sup>th</sup> August 2008 at NMU Jalgaon.
- 24) National Conference on Development and Analysis of Drugs- organized on 15<sup>th</sup> March 2008 at NMU 2008.
- 25) First International Conference on Agrochemicals Protecting Crop, Health and Natural Environment - IARI, New Delhi (2008)
- 26) C. V. Raman Memorial Seminar - North Maharashtra University, Jalgaon (2007)
- 27) National Seminar on Recent Trends in Inorganic and Analytical Chemistry- organized during 1-2<sup>nd</sup> September 2006 at University of Pune.
- 28) National Conference on Recent Trends in Synthetic Organic Chemistry - School of Chemical Sciences North Maharashtra University, Jalgaon (2005)
- 29) C. V. Raman Memorial Seminar - North Maharashtra University, Jalgaon (2005).
- 30) Workshop on Gas Chromatography-organized on 13th January 2001 at NMU Jalgaon.
- 31) 18th Annual National Conference of Indian Council of Chemists - Jalgaon (1999)
- 32) 32<sup>nd</sup> Annual Convention of Chemists - 1995.
- 33) Catalysis Society of India
- 34) Modern Trends in Inorganic Chemistry - IIT Madras, India, 1990.
- 35) 8<sup>th</sup> Annual National Conference of Indian Council of Chemists - Tirupati (1990)
- 36) Modern Trends in Inorganic Chemistry -TIFR Mumbai, India, 1988.

#### Other Seminar/Workshops:

1. Workshop on Capacity Building in Women Managers, October, 2010, NMU, Jalgaon.
2. National Seminar on Women and Health : New Paradigms March 3-5, 2008 Thiruvananthapuram.
3. Workshop on Campus Diversity Initiative-organized during 15-18<sup>th</sup> March 2001 at NMU Jalgaon.

## Research Students: Ph.D. Awarded - 18, Submitted - 01, Working – 07+1\*, M.Phil. Awarded – 02 (\*Co-guide)

Sr. No.	Name of student	Category	Ph.D.	Registration Date	Degree awarded	Title of Research Work	Remark
1.	<u>Ms. Seema R. Shimpi</u>	OBC	Ph.D.	21-06-2001	03-10-2005	Chemistry Botanicals as Eco-friendly Pesticides: Extraction, Characterization and Applications.	Awarded
2.	<u>Ms. Leena S. Chaudhari</u>	Open	Ph.D.	21-06-2001	02-02-2007	Synthesis, Characterization and application of Thymol & Carvacrol derivatives as pesticides.	Awarded
3.	Mr. Anil S. Kuwar	OBC	Ph.D.	12-04-2002	31-01-2007	Synthesis, Characterization and Activities of Metal Complexes of ortho-thymoldehyde Derivatives.	Awarded
4.	Mr. Chetan M. Zade	OBC	Ph.D.	23-01-2007	25-01-2012	Biological activities of structurally modified thymol derivatives	Awarded
5.	Mr. Rakesh S. Sancheti	Open	Ph.D.	26-09-2007	25-02-2012	Synthesis, Characterization and DNA Cleavage Activity of Coordination Compounds Derived From Polydentate Ligands	Awarded
6.	Mr. Jitendra D. Bhosale	Open	Ph.D.	12-05-2008	14-08-2014	Synthesis, characterization and biological activity of Ester derivatives of 1-(3, 4-dimethyl-2, 5-dihydro-1H-pyrrol-2-yl) propan-2-ol	Awarded
7.	Mr. Umesh D.Pete	OBC	Ph.D.	22-02-2011	12-07-2014	Synthesis and evaluation of biological activity of derivatives of carvacrol	Awarded
8.	Mr. Dnyaneshwar L. Ahire	SC	Ph.D.	12-05-2008	05-06-2015	Investigation on applications of Starch and its modification for safe and effective delivery system of Bioactive molecules (Pesticide)	Awarded
9.	Mr. Dipesh P. Mahajan	OBC	Ph.D.	12-05-2008	31-08-2015	Synthesis and Studies on PGR activities of Heterocyclic Compound	Awarded
10.	Mr. Jayesh R. Gujrathi	Open	Ph.D.	22-01-2009	14-01-2015	Studies on Metal Complexes of Parent and N (4) Substituted 5-chloro-2-hydroxyacetophenone thiosemicarbazone and their Adducts	Awarded
11.	<u>Ms Smita S. Patil</u>	OBC	Ph.D.	22-01-2009	26-11-2015	Studies on coordinatively saturated and unsaturated metal complexes of N-heterocyclic hydrazone ligand	Awarded
12.	Mr. Chakradhar D Hadole	OBC	Ph.D.	22-02-2011	09-04-2016	Synthesis, Characterization and antimicrobial activities of Benzimidazole derivatives.	Awarded
13.	Ms. Archana Sawale (Co-guide)	OBC	Ph.D.	26-09-2007	05-12-2016	Synthesis, Characterization and Biological Screening of Nitrogen and Sulphur Heterocycles	Awarded
14.	Mr. Jamatsing D. Rajput	NT	Ph.D.	09-02-2015	23-02-2018	Simple Tactics Towards the synthesis of natural phenolic Monoterpenoid based Biologically active derivatives.	Awarded
15.	Mr. Suresh D. Bagul	OBC	Ph.D.	09-02-2015	02-08-2018	Design and Development of Biologically Active Derivatives of Carvacrol.	Awarded
16.	<u>Ms. Samina K. Tadavi</u>	ST	Ph.D.	06-05-2013	08-09-2018	Design and development of supported transition metal complexes of O <sub>2</sub> N <sub>2</sub> donor ligands as oxidation catalyst	Awarded
17.	Mr. Pravin S. Karandikar	OBC	Ph.D.	09-02-2015	19-12-2019	Preparation and Characterization of Polymeric Microcapsules from Naturally occurring Phenols for Control Release of Bioactive Molecule.	Awarded
18.	<u>Ms. Pradnya S. Sathe</u>	Open	Ph.D.	09-02-2015	08-07-2019	Design and synthesis of biologically active derivatives of Thymol.	Awarded
19.	Manohar M. Patil	OBC	Ph.D.	28-11-2015	Continued	Task specific synthesis of naturally occurring phenolic monoterpenoids based biologically active derivatives and their application in molecular recognition	Working
20.	Shashikant Pawar (Co-guide)	OBC	Ph.D.	22-02-2011	Continued	Chemical, Biological and Catalytic Study of Nitrogen Adducts of Transition Metal Complexes Involving Tetradentate Schiff Base Ligands	Working
21.	Rahul D. Patil	OBC	Ph.D.	22-05-2018	Continued	Preparation of Controlled Release Formulations of Pesticides by Using Polymeric Resins Derived from Synthetic Compounds and Naturally Occurring Phenols.	Working
22.	Rahul T. Bhoi	N. T. (B)	Ph.D.	22-05-2018	Continued	Synthesis, Characterization and Biological Evaluation of Some Nitrogen Based Heterocyclic Derivatives	Working

						of Thymol and Carvacrol	
23.	<u>Minakshee A. Todarwal</u>	Open	Ph.D.	22-05-2018	Continued	Synthesis Characterization and Bioefficacy of Novel Polydentate Schiff Bases and their Transition Metals Complexes	Working
24.	Santosh V. Dandge	Open	Ph.D.	22-05-2018	Continued	Synthesis, Characterization and Applications of Azo Dyes of Natural Phenols	Working
25.	Mr. Chetan Bhoi	N. T. (B)	Ph.D.	22-05-2018	Continued	Synthesis, Characterization and Biological Evaluation of Transition Metal Complexes of Novel Hydrazones Derived from Dihydralazine	Working
26.	Sumit R. Nikume	S.B.C.	Ph.D.		Continued		Working
27.	Rohit Patil	OBC	Ph.D.		Continued		Working

<b>Sr. No.</b>	<b>Name of student</b>	<b>Category</b>	<b>M. Phil.</b>	<b>Registration Date</b>	<b>Degree awarded</b>	<b>Title of Research Work</b>
1	Mr. Shashikant P. Pawar	OBC	M. Phil.	25-05-2007	01-06-2009	Synthesis, Characterization & Biological Activities of Tetradentate Schiff Base Ligands & Their copper and Zinc complexes
2	<u>Ms. Deepmala I. Desai</u>	SC	M. Phil.	25-05-2007	27-06-2009	Synthesis, Characterization and Biological Activities of Copper (II) Complexes of Thiosemicarbazones and Heterocyclic Bases