



## CURRICULUM VITAE

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**Nationality** : Indian  
**Knowledge of Language** : English, Marathi & Hindi.  
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**Educational Qualification** :

| Exam. Passed | Subject/Specialization  | Year of passing | % of marks | Board/University        |
|--------------|---|-----------------|------------|-------------------------|
| S.S.C.       | Eng., Marathi, Math's., Science, Soc. Science, Phy. & Health Edu, SUPW. | 1983            | 60.26      | CBSE, New Delhi         |
| H.S.C.       | Eng., Biology, Chemistry, Physics, Math's, SUPW.                        | 1985            | 46.00      | CBSE, New Delhi         |
| B.Sc.        | Zoology-Fishery   | 1989            | 76.90      | Shivaji Univ., Kolhapur |
| M.Sc.        | Zoology<br>(Animal Physiology)  | 1991            | 63.45      | Shivaji Univ., Kolhapur |
| Ph.D.        | Zoology<br>(Aquatic Toxicology)   | 2002            | By thesis  | Shivaji Univ., Kolhapur |

**Title of Ph.D. Thesis:** **TOXICOLOGICAL STUDIES OF THE  
HEAVY METALS ON THE FINGERLINGS OF THE  
FRESHWATER FISHES**

**Computer Literacy** : **MS-CIT**

#### **APPENDIX**

|   |   |               |
|---|---|---------------|
| <b>Details of Publications</b>                                  | : | Appendix-I    |
| <b>Participation in Conférence/<br/>Symposium/ Seminar etc.</b> | : | Appendix- II  |
| <b>Participation in Webinar</b>                                 | : | Appendix-III  |
| <b>Participation in Training</b>                                | : | Appendix-IV   |
| <b>Expérience</b>   | : | Appendix V    |
| <b>Guest Lectures</b>   | : | Appendix VI   |
| <b>Project</b>  | : | Appendix VII  |
| <b>Research Guidance</b>  | : | Appendix VIII |
| <b>Membership of Academic bodies</b>                            | : | Appendix IX   |
| <b>Books/Chapters Published</b>                                 | : | Appendix X    |
| <b>Awards</b>   | : | Appendix XI   |

## APPENDIX – I

### DETAILS OF PUBLICATIONS

- 1 Deshpande V.Y, **M.P. Bhilave**, D.V. Muley, G.B. Kamble 1999 Pesticides induced alternations in alkaline and acid phosphatases in liver and intestine of *Labeo rohita* Journal of Aquatic Biology 14 (1 & 2) 71-74 ISSN:0971-4235
- 2 Muley. D.V.G.B. Kamble **M.P. Bhilave** 2000 Effect of heavy metals on Nucleic acids in *Cyprinus carpio* Journal of Environmental Biology 21 (4) 367-70 ISSN: 0254-8704 (IF 0.64)
- 3 **Bhilave, M.P.**, D.V. Muley V.Y. Deshpande 2004 Bioaccumulation of heavy metals in various organs of the fish *Cirrhinus mrigala* and *Cyprinus carpio* after acute exposure Journal of Aquatic Biology 19 (2) 115-118 ISSN:0971-4235
- 4 **Bhilave M.P.** 2005 Schemes of Department of Fisheries (Govt. of M.S.) Abstract Copy 65-68
- 5 **Bhilave M.P.** & Muley D.V. 2005 Case Study – Management and Economics of Aquaculture Hydrosphere 9 46-48
- 6 **Bhilave, M.P.**, D.V. Muley V.Y. Deshpande 2005 Pyrethroid Induced Enzymatic Changes in *Labeo rohita* Journal of Aquatic Biology 20(2) 205-210 ISSN: 0971-4235
- 7 **Bhilave, M.P.** Deshpande V. Y, Phase S. R., Pawar A. V., Sargde K. D. 2006 Marketing and Economics of Fresh water fishes (Case study of Kolhapur district) Proceedings of INCOZ-2006, Bangalore 25-29
- 8 Deshpande V.Y, Muley.D.V **Bhilave,M.P** 2007 Pyrethroids induced respiratory changes in *Labeo rohita* Nature Environment and Pollution Technology 6(2) 277-280 ISSN 0972-6268 (IF still computing)
- 9 Deshpande V.Y, Muley.D. V **Bhilave, M.P** 2007 Pyrethroid induced behavioral changes in *Labeo rohita* Trajectory 14(1) 36-44
- 10 Chavan.B. R **Bhilave, M.P** 2007 Impact of Heavy Metals on Fresh water fish *Cirrhinus mrigala* in relation to oxygen consumption. Journal of Asian Association for Agricultural Engineering, Thailand 1-5 ISSB 978-974 8257 48 8
- 11 Jawale.C. A **Bhilave, M.P** 2008 Study of Enriched Conventional Feed on Hematological Parameters of *Labeo rohita* Life Science Bulletin 5(1) 55-58 ISSN: 0973-5453
- 12 S.R. Chavan, **Bhilave, M.P.**, M.T. Wakade, Pallavi Shinde 2008 Influence of sugar concentration in the food source on the foraging behavior of *Apis mellifera* Entomon 34(1) 51-52 ISSN: 0377-9335 (IF 0.2)
- 13 Jawale.C. A, Babare.M. G, **Bhilave, M.P** 2009 Effect of effluents from sugar industry on the protein and lipids in the ovary of freshwater fish *Labeo rohita* Bionano Frontier Science Day Special Issue 42-44 ISSN:0974-0678 (IF 0.2334)
- 14 **Bhilave, M.P.**, Nadaf.S.B, Deshapande,V.Y Shinde.P.S 2009 Enzymatic changes in fishes exposed to heavy metals Journal of Aquatic Biology 24 (1) 124-127 ISSN:0971-4235

- 15 **Bhilave, M.P**, Nadaf.S.B, Deshapande, V.Y 2009 Formulation of fish feed using ingredients from slaughter houses Indian Research Communication 3(1) 26-30 ISSN:0973-9661
- 16 Deshapande, V.Y, **Bhilave, M.P** 2009 Ichthyofauna of Satara Tahsil of Maharashtra Journal of Aquatic Biology 24 (1) 36-40 ISSN:0971-4235
- 17 **Bhilave, M.P** 2009 Resume, Curriculum Vitae and Bio data Hydrosphere 15 (2) 41
- 18 **Bhilave, M.P**, Pallavi Shinde Jawale.C. A 2009 Impact of heavy metals on nucleic acids in *Cirrhinus mrigala* The Ekologia 9 (1-2) 95-99 ISSN: 0972-9577
- 19 **Bhilave, M.P**, Nadaf.S.B, Deshapande,V.Y. 2010 Formulation of fish feed using animal ingredients Bionano Frontier 3(1) 93-96 ISSN:0974-0678 (IF 0.2334)
- 20 Bamane.S.R and **Bhilave, M.P** 2010 A Novel Technique: Defluoridation of drinking water using burnt bricks Indian Research Communication 3 (2) 51-54 ISSN:0973-9661
- 21 **Bhilave, M.P**, Nadaf.S.B, Bhosale S.V 2010 Comparative account of nutritional analysis of formulated feeds from plant and animal sources Life Science Bulletin 7(1) 101-104 ISSN:0973-5453
- 22 **Bhilave,M.P**, Nadaf.S.B, Deshapande,V.Y 2010 Growth performance and feed conversion ratio of freshwater fish fed on formulated feed Journal of Aquatic Biology 25 (1) 181-185 ISSN:0971-4235
- 23 **Bhilave,M.P**, Bhosale S.V. Nadaf.S.B, 2010 Growth response and feed conversion ratio of *Ctenopharengedon idella* fed on Soyabean formulated feed Biological forum 2(1) 67-69 ISSN 0975-1130
- 24 **Bhilave, M.P**, Nadaf.S.B, Bhosale S.V. 2010 Evaluation of consumption of formulated feed in freshwater fishes Bionano frontier 3 (2) 196-200 ISSN:0974-0678 (IF 0.2334)
- 25 **Bhilave,M.P**, Nadaf.S.B, 2010 Formulation of fish feed using earthworm as raw material International magazine on animal nutrition, processing and feed management, Netherlands 1 (3) 33-34 ISSN: 0928 124X
- 26 **Bhilave, M.P**, Nadaf.S.B, Bhosale S.V. 2010 Evaluation of Growth and Feed Conversion Ratio in fishes fed on plant and animal formulated feed International Journal of Biological Sciences 1(1) 59-64 ISSN:0976-4518
- 27 Bhosale S V, **Bhilave M P** Nadaf S B 2010 Formulation of Fish Feed using Ingredients from Plant Sources Research Journal of Agricultural Science 1(3) 284-287 ISSN: 0976-1675 (IF 0.235)
- 28 **Bhilave, M.P**, Nadaf.S.B, Deshapande,V.Y. 2010 Proximate analysis of formulated feed International magazine on animal nutrition, processing and feed management, Netherlands 1.9 33-34 ISSN: 0928 124X
- 29 **Bhilave, M.P**, Nadaf.S.B, Bhosale S.V. 2010 Evaluation of nutritional parameters of feed formulated from Soyabean Indian journal of Fisheries Communicated

- 30 **Bhilave, M.P**, Nadaf.S.B, Deshapande, V.Y 2010 Evaluation of length weight relationship in freshwater fishes fed on formulated feed Indian journal of Fisheries Communicated
- 31 **Bhilave, M.P**, Nalawade V.B., Nadaf.S.B, and Bhosale S.V., 2011 Nutritional analysis of nonconventional feed resource Uttar Pradesh Journal of Zoology 31 (1) 87-90 ISSN0256-971X
- 32 **Bhilave, M.P**, Nadaf.S.B, Bhosale S.V 2011 Evaluation of Protein Efficiency Ratio (PER) in *Labio rohita* fed on formulated feed Bionano Frontier 4 (1) 84-87 ISSN:0974-0678 (IF 0.2334)
- 33 **Bhilave, M.P**, Nadaf.S.B, Bhosale S.V. 2010 Comparative account of protein efficiency ratio in fishes fed on earthworm and soyabean formulated feed Indian Journal of Experimental Zoology India Communicated
- 34 **Bhilave, M.P**, Nadaf.S.B, Bhosale S.V. 2010 Gross Conversion Efficiency (GCE) of *Labeo rohita* fed on formulated feed The Bioscan 5(3) 483-485 ISSN:0973-7049
- 35 **Bhilave, M.P**, Bhosale S.V., and Nadaf.S.B, 2010 Formulation of fish feed using soyabean,radish,maize and beet Indian journal of Animal Science Communicated
- 36 **Bhilave, M.P**, **Nadaf.S.B**, and Bhosale S.V 2011 Gross Conversion Ratio (GCR) of *Labeo rohita* fed on formulated feed Bionano Frontier Special Issue 6 126-128 ISSN:0974-0678 (IF 0.2334)
- 37 **Bhilave,M.P**, Nalawade V.B., 2011 Studies on Specific Growth Rate (SGR) and Feed Conversion Ratio (FCR) on freshwater fish *Labeo rohita* fed on formulated feed Bionano Frontier 4 (2) 234-236 ISSN:0974-0678 (IF 0.2334)
- 38 **Bhilave, M.P**, Nadaf.S.B, and Bhosale S.V 2011 Nutritional analysis of fishes fed on formulated feed International Journal of Global Research in Science and Technology Vol 1 Issue 1 104-108
- 39 **Bhilave, M.P**, Nadaf.S.B, and Bhosale S.V 2011 Nutritional analysis of plant formulated feed Current Science Communicated
- 40 Nalawade, V.B, **Bhilave,M.P**; 2011 Protein Efficiency Ratio (PER) and Gross Food Conversion Efficiency (GFCE) of freshwater fish *Labeo rohita* fed on formulated feed The Bioscan 6(2): 301-303 ISSN:0973-7049
- 41 RA Jmadade, Deshpande VY, Parkhe YB, **Bhilave MP** 2011 Status of Fish Consumption in Kolhapur City Recent Research in Science and Technology 3(3): 143-146 ISSN:2076-5061
- 42 **Bhilave, M.P**, Nadaf.S.B, and Bhosale S.V 2011 Formulation of Fish Feed using Mulberry (*Morus alba*) Leaves Research Journal of Agricultural Sciences 2(4): 889-892 ISSN:0976-1675
- 43 **Bhilave, M.P**, Nadaf.S.B, and Bhosale S.V 2011 Nutritional efficiency in fish fed on formulated feeds International magazine on animal nutrition, processing and feed management, Netherlands 2 (7):31-32 ISSN: 0928 124X

- 44 **Bhilave, M.P**, Nadaf.S.B, and Bhosale S.V 2011 Comparative Account of Protein Efficiency Ratio in Fishes Fed on Earthworm and Soyabean Formulated Feed Indian Research Communication 5 (1): 12-14 ISSN: 0973-9661
- 45 **Bhilave, M.P**, Nadaf.S.B, and Bhosale S.V 2011 Use of ficus leaves in fish feed formulation Journal of Current Science 16 (1): 261-267 ISSN-0972-6101 (IF 0.567)
- 46 Jamdade,RA, Deshpande VY, Parkhe YB and **Bhilave MP** 2011 Status of Fish Consumption in Kolhapur City Recent research in Science and Technology 3 (3) : 143-146 ISSN 2076-5061
- 47 Bhosale S.V., **Bhilave, M.P**, Nadaf.S.B, 2012 Protein Efficiency Ratio (PER) of *Ctenopharyngodon idella* fed on soyabean formulated feed Biological forum 4 (1) 44-47 ISSN:0975-1130
- 48 **Bhilave, M.P**, Nadaf.S.B, Bhosale S.V and Jadhav P.R 2012 Nutritional analysis of fishes fed on formulated feed International Journal of Global Research in Science and Technology Vol 1 Issue 1
- 49 Nadaf, S.B,**Bhilave,M.P**, Bhosale.S.V, 2013 Length Weight Relationship (LWR) in freshwater fishes fed on formulated feed Bionano Frontier 6 (2) 232-236 ISSN:0974-0678 (IF 0.2334)
- 50 **Bhilave, M.P**, Nadaf.S.B, Bhosale S.V and Nalawade V.B 2013 Nutritional Analysis of Plant Formulated Feeds Research Journal of Agricultural Sciences 4(4): 480-483 ISSN: 0976-1675
- 51 **Bhilave, M.P**, and Nalawade V.B 2013 Evaluation of voluntary feed intake (VFI) of freshwater fish *Labeo rohita* fed on formulated feed Conference Proceeding National Seminar on Recent Trends in Cell biology, Biotechnology and Bioinformatics : 01-07 ISBN: 978-81-927211-3-2
- 52 **Bhilave, M.P**, 2013 Inventorisation of aquatic resources for fish protein International magazine on animal nutrition, processing and feed management, Netherlands 2 (8):31-32 ISSN: 0928 124X
- 53 Nalawade V.B, **Bhilave, M.P**, and Kulkarni J.J 2014 Protein Conversion Efficiency (PCE) in Muscle of freshwater fish *Labeo rohita* fed on formulated feed Biological Forum 6 (1): 79-83 ISSN: 0975-1130 IF 1.26
- 54 Bhosale SV, **Bhilave MP**, Nadaf SB, Kulkarni JJ 2014 Red Blood Cell and White Blood Cell count in *Ctenopharyngodon idella* fed with different combinations of formulated feed Bionano Frontier 7(2): 268-272 ISSN:0974-0678 (IF 0.2334)
- 55 **Bhilave MP**, Nadaf SB,Nalawade VB and Bhosale SV, 2014 Haematological Profile of *Labeo rohita* fed on formulated feed Bionano Frontier 7(2): 273-277 ISSN:0974-0678 (IF 0.2334)
- 56 **M.P. Bhilave**, V.B Nalawade and J.J. Kulkarni, 2014 Amylase activity of fingerlings of freshwater fish *Labeo rohita* fed on formulated feed. International Journal of Fisheries and Aquatic Studies, 2(1): 53-56 ISSN: 2347-5129

- 57 S V Bhosale and **M P Bhilave**, 2014 Gross Conversion Efficiency of *Ctenopharyngodon idella* Fed with Conventional and Combinations of Formulated Feed. Research Journal of Agricultural Sciences 5(5): 939-942, ISSN: 0976-1675
- 58 S V Bhosale and **M P Bhilave**, 2014 The Length Weight Relationship of *Ctenopharyngodon idella* fed with formulated feed. International Journal of Fisheries and Aquatic Studies, 2(2): 227-237 ISSN: 2347-5129
- 59 **M P Bhilave**, and Bhosale S.V 2015 Protein Content of *Ctenopharyngodon Idella* Fed with Soyabean Formulated Feed. International Journal of Fisheries and Aquatic Studies, 2(3): 103-107 ISSN: 2347-5129
- 60 **M P Bhilave**, S.B.Nadaf and S.V. Bhosale 2015 Production of species specific planktons using dung of domesticated animals proceedings of National Conference on Innovative Ideas and Research in Life Sciences for Sustainable Development: 07-11 ISBN: 978-81-925586-6-0
- 61 J.J. Kulkarni and **M.P. Bhilave** 2015 Modulation in behavior and respiratory dynamics of the freshwater fish *Labeo rohita* on sublethal Diazinon exposure. International Journal of Science, Environment and Technology, Vol. 4, No 1, 2015, 135 – 139: ISSN 2278-3687 (O)
- 62 Nalawade VB, **Bhilave MP**, and Kulkarni JJ 2015 Protease activity on fingerlings of freshwater fish *Labeo rohita* fed on formulated feed. Bionano Frontier 8(3): 154-158 ISSN: 0974-0678 (IF 0.2334)
- 63 JJ Kulkarni, **MP Bhilave**, VB Nalawade and TH Desai 2015 Acute Toxicity of Diazinon on Behavioural Study of Fingerlings of Freshwater fish *Labeo rohita* Proceedings of National Conference on Recent Trends in Life Sciences: 01-05 ISBN: 978-93-5235-362-0
- 64 JJ Kulkarni, and **MP Bhilave** 2015 Response of Organophosphate Pesticide Acephatase Induced Stress in Biochemical and Haematological Indices of *Labeo rohita* International Journal of Innovative Science, Engineering and Technology, Vol 2 Issue 2, 222-226 ISSN 2348-7968
- 65 Bhosale AM, Babar RA, Chavan SS, **Bhilave MP** and Kamble VS 2015 Indigenous light trap for insect crop pests. Journal of Science Information: 29-33 ISSN: 2229-5836
- 66 **MP Bhilave**, and VB Nalawade 2015 Total Protein Content of Fingerlings of Freshwater fish *Labeo rohita* fed on Formulated Feed Proceedings of National Conference on Recent Trends in Life Sciences: 182-187 ISBN: 978-93-5235-362-0
- 67 **MP Bhilave**, 2016 Formulation of fish feed using Mangrove Leaves (*Avicennia officinalis*) Bionano Frontier 9(1): 91-94 ISSN: 0974-0678 (IF 0.2334)
- 68 **M P Bhilave**, Bhosale S.V and Nadaf S.B 2016 Formulation of fish feed using ingredients from soyabean, radish, maize and beet. International Journal of Fisheries and Aquatic Studies, 4(5): 78-81 ISSN: 2347-5129
- 69 **M P Bhilave**, Kulkarni JJ 2016 Effect of amylase activity on *Labeo rohita* exposed to organophosphate insecticide acephate. The Ecoscan Volume IX : 553-556 ISSN: 0974-0376

- 70 **M P Bhilave**, 2018 Evaluation of Nutritional Parameters of Feed Formulation from Soyabean. International Journal of Fisheries and Aquatic Studies Volume VI Issue I Part C: 166-169 ISSN: 2347-5129
- 71 **M P Bhilave**, 2018 Study of shelf life of formulated fish feed. International Journal of Fisheries and Aquatic Studies Volume VI Issue I: 174-176 ISSN: 2347-5129
- 72 **M P Bhilave** Desai T.H, 2018 Toxicological studies of methanol on hematological profile of freshwater fish *Cirrhinus mrigala* International Journal of Life Science Special Issue A 9: January 2018: 21-24 ISSN:2320-7817
- 73 **M P Bhilave**, Desai T.H 2018 Effect of Methanol on the Biochemical Constituents of Freshwater Fish *Cirrhinus mrigala*. Electronic Interdisciplinary International Research Journal Volume VII Issue XII: 151-155 ISSN: 2277-8721
- 74 **M P Bhilave**, 2018 Livelihood Support through Aquaculture. Proceedings of National Conference on Rural Livelihood Models for Sustainable Development: 108-113 ISBN: 978-81-8486-575-2
- 75 **M P Bhilave** Desai T.H, 2018 Toxicological studies of Methanol on Superoxide Dismutase (SOD) activity of freshwater fish *Cirrhinus mrigala* International Journal of Fisheries and Aquatic Studies 2018;6 (5): 20-22 ISSN:2347-5129
- 76 **M P Bhilave**, 2018 Biochemical Profile of some of the Marine Fishes International Journal of Fisheries and Aquatic Studies 2018;6 (5): 127-131 ISSN:2347-5129
- 77 **M P Bhilave**, 2018 ICT applications in Research and Education of Aquaculture aarhat Multidisciplinary International Educational Research Journal 2018; Vol VII Issue XXIII: 37-39 ISSN:2278-5655
- 78 **M P Bhilave**, 2018 Traditional fishing methods of Kolhapur District International Journal of Fisheries and Aquatic Studies 2018; 6 (6): 368-371 ISSN: 2347-5129
- 79 **M P Bhilave**, 2018 Comparative Studies on Characterization of Scales of Freshwater Fishes 2018; 5 (12): 227-234 ISSN: 2349-5162
- 80 Desai TH and **M P Bhilave**, 2018 Alterations in the Acid Phosphate Activity of Freshwater Fish *Cirrhinus mrigala* Exposed to organic solvent Methanol International Journal of Life Sciences 2018; 6 (02): 2320-7817 ISSN: 453-456
- 81 PV Pawar and **M P Bhilave**, 2019 Effect of Insecticide Chlorantraniliprole on Hematological Profile of Fingerlings of Freshwater Fish *Cirrhinus mrigala* International Journal of Research and Analytical Reviews 2019; 6 (01): 982-989 ISSN: 2349-5138
- 82 PV Pawar and **M P Bhilave**, 2019 Effect of Novel Insecticide Chlorantraniliprole on Lipid Peroxidation of Fingerlings of Freshwater Fish *Cirrhinus mrigala* International Journal of Research and Analytical Reviews 2019;Special Issue: 562-565 ISSN: 2348-1269



- 83 Desai TH and **M P Bhilave**, 2019 Lethal Effect of Methanol on Catalase activity of Freshwater Fish *Cirrhinus mrigala* International Journal of Research and Analytical Reviews 2019; 6 (02): 205-208 ISSN: 2349-5138
- 84 **M P Bhilave**, 2019 Lipase Activity Profile in Freshwater Fish *Labeo rohita* fed on formulated feed International Journal of Research and Analytical Reviews 2019; 6 (02): 362-370 ISSN: 2349-5138
- 85 Desai TH and **M P Bhilave**, 2019 Toxicological Effect of Methanol on Protein Profile of Freshwater Fish *Cirrhinus mrigala* International Journal of Research and Analytical Reviews 2019; 6 (02): 309-320 ISSN: 2348-1269
- 86 **M P Bhilave**, 2019 Skeleton to Muscle Ratio in *Labeo rohita* fed on Conventional and Combinations of Formulated feed International Journal of Pharmacy and Biological Sciences 2019; 9 (03): 1067-1070 ISSN: 2321-3272
- 87 **M P Bhilave**, 2019 Protease Activity Profile in Freshwater Fish *Labeo rohita* Fed on Formulated Fish Feed International Journal of Research and Analytical Reviews (IJRAR) 2019; 6 (02): 347-355 ISSN: 2348-1269
- 88 **M P Bhilave**, 2020 Influence of Animal Protein Ingredient on Growth Factors of Two Major Carps *Labeo rohita* and *Cirrhinus mrigala* International Journal of Life Science Research (IJLSR) 2020; 8 (01): 12- 20 ISSN: 2348-3148
- 89 PV Pawar and **M P Bhilave**, 2020 Effect of Novel Insecticide Chlorantraniliprole on Alkaline Phosphatase Activity in Freshwater Fish *Cirrhinus mrigala* International Journal of Scientific and Technology Research 2020; 2 (9) 2992-2995 ISSN: 2277-8616
- 90 **M P Bhilave**, 2021 Toxicological studies of Methanol on Glutathione Peroxidase (GPx) activity of freshwater fish *Cirrhinus mrigala* International Journal of Life Science Research (IJLSR) 2021; 9 (02): 01- 06 ISSN: 2348-3148
- 91 PV Pawar and **M P Bhilave**, 2021 Effect of Chlorantraniliprole Exposure on Total Protein Content in Freshwater Fish *Cirrhinus mrigala* BIOINFOLET 18 (2) : 218, 2021 ISSN: 2277-8616
- 92 PV Pawar and **M P Bhilave**, 2021 Toxicological Effects of Insecticide Chlorantraniliprole on the Acid Phosphatase Activity of Freshwater Fish *Cirrhinus mrigala* BIOINFOLET 18 (2) : 218, 2021 ISSN: 2277-8616
- 93 **M P Bhilave**, 2021 Alterations in the Alkaline Phosphatase Activity of Freshwater Fish *Cirrhinus mrigala* Exposed to Methanol International Journal of Life Science Research (IJLSR) 2021; 9 (04): 01- 06 ISSN: 2348-3148
- 94 **M P Bhilave**, 2021 Effect of Methanol on Lipid Profile of Freshwater Fish *Cirrhinus mrigala* International Journal of Fisheries and Aquatic Studies 2021; 9 (05): 201- 204 ISSN: 2347-5129
- 95 **M P Bhilave**, 2022 Sub lethal effects of chronic paraquat exposure on Biochemical alterations in Indian Major Carp *Cirrhinus mrigala* Hamilton International Journal of early Childhood Special Education (INT JECSE) 2022; 14 (01): 409- 418 ISSN: 1308-5581

- 96 N B Birajdar and **M P Bhilave**, 2022 Toxicological Impact of Non Selective Herbicide Paraquat Dichloride on Total Protein Content on India Major Carp *Cirrhinus mrigala* International Journal of Research and Analytical Reviews; 09 (01): 93- 99 ISSN: 2349-5138
- 97 VB Nalawade, **MP Bhilave**, and MN Desai 2022 Total Lipid Alteration Gill and Muscle of Fingerlings of Freshwater Fish *Labeo Rohita* Fed on Formulated Feed International Journal of Advanced Research in Science, Communication and Technology: 02 (06) 51-55 ISSN: 2581-9429
- 98 N B Birajdar and **M P Bhilave**, 2022 Effect of Paraquat on Glycogen Content in India Major Carp *Cirrhinus mrigala* Bioinfolet; 19 (03): 304-305 ISSN: 0973-1431
- 99 FF Faisal and **M P Bhilave**, 2022 Adverse effect of insecticide Pirimicarb on enzyme activity of freshwater fish *Cirrhinus mrigala* High Technology Letters ; 28 (11): 761- 770 ISSN: 1006-6748
- 100 N B Birajdar and **M P Bhilave**, 2023 Impact of Paraquat on Acid & Alkaline Phosphate Activity in India Major Carp *Cirrhinus mrigala* Hamilton Toxicology International; 29 (04): 481-492 ISSN: 0971-6580
- 101 N B Birajdar and **M P Bhilave**, 2023 Toxicological Impact of Non Selective Herbicide Paraquat Dichloride on Lipid Content of India Major Carp *Cirrhinus mrigala* (Hamilton) Journal of Shivaji University: Science and Technology; 48 (01): 1-9 ISSN: 0250-5347
- 102 N B Birajdar and **M P Bhilave**, 2023 Paraquat Induces Alterations in Lipid Peroxidation Activity During Acute Exposure in Commercially Important Bottom Feeder *Cirrhinus mrigala* (Hamilton) Journal of Shivaji University: Science and Technology; 48 (01): 28-36 ISSN: 0250-5347
- 103 **Bhilave M P**, 2023 Entrepreneurship Development for Graduates with Special Reference to Fisheries Subject; A Journal of the Multidisciplinary Subjects -Naveen Anveshan 05 (01): 52- 55 ISSN: 2395-3497
- 104 N B Birajdar and **M P Bhilave**, 2024 Impact of Chronic Paraquat Toxicity on Lipid Peroxidation Activity of Indian Major Carp *Cirrhinus mrigala* (Hamilton) Advances in Zoology and Botany 12 (01): 42-46 ISSN: 0250-5347
- 105 R J Lad and **M P Bhilave**, 2024 Lipid Peroxidation Induced by Insecticide Enamectin Benzoate in Liver and Brain Tissues of Freshwater Fish *Labeo rohita* International Journal of Ecology and Environmental Sciences 49: 587-590 ISSN: 2320-5199
- 106 **M P Bhilave** and FF Faisal, 2024 Hematological alterations in freshwater fish *Cirrhinus mrigala* on exposure to acute concentration of pesticide Pirimicarb; African Journal of Biological Sciences 6 (9): 4902- 4913 ISSN: 2663-2187
- 107 R J Lad and **M P Bhilave**, 2024 Toxic effects of Enamectin Benzoate on the liver of *Labeo rohita* Bioinfolet 21: 506-508 ISSN: 0973-1431

## APPENDIX – II

### PARTICIPATION IN CONFERENCES / SYMPOSIA / SEMINAR / ETC

- 1 Deshpande V.Y., **M.P. Bhilave**, D.V. Muley, G.B. Kamble 1998 Pesticides induced alternations in alkaline and acid phosphatases in liver and intestine of *Labeo rohita* XIII Annual Congress of NESO & Symposium on Environmental Issue, 21st century Department of Microbiology, Gulbarga University, Gulbarga, Karnataka (12-14 December, 1998)
- 2 G.B. Kamble **M.P. Bhilave** D.V. Muley V.Y. Deshpande 2000 Impact assessment of heptachlor after acute and chronic exposure to freshwater fish *Sarotherodon mossumbicus* Vth Indian Fisheries Forum, CIFA, Bhubaneshwar, (17-20 January, 2000) Bhubaneshwar Orissa
- 3 **M.P. Bhilave** D.V. Muley V.Y. Deshpande 2001 Heavy metal induced changes in digestive enzymes of *Cirrhinus mrigala* National Seminar on Comparative Animal Physiology for 21st Century organized by Department of Zoology, Goa University, Goa (13-15 December 2001)
- 4 **M.P. Bhilave** D.V. Muley V.Y. Deshpande 2001 Heavy metal induced changes in digestive enzymes of *Cyprinus carpio* National conference on Living Resources for Bio-Industries organized by Department of Zoology, DrBAMU, Aurangabad. (22-23 December 2001)
- 5 **Bhilave, M.P.** D.V. Muley V.Y. Deshpande 2002 Bioaccumulation of heavy metals in various organs of the fish *Cirrhinus mrigala* and *Cyprinus carpio* after acute exposure National Symposium on Animal and Environment : Special emphasis on biotechnology organized by Department of Zoology, HRM Rajgurunagar Pune (19-21 February 2002)
- 6 **Bhilave, M.P.** D.V. Muley V.Y. Deshpande 2002 Impact of heavy metals on *Cirrhinus mrigala* in relation to oxygen consumption National Symposium on Biodiversity and Resource Management organized by NBFGR, Lucknow U.P (11-13 September 02)
- 7 **Bhilave, M. P.** D.V. Muley and V.Y. Deshpande 2003 Impact of heavy metals on *Cyprinus carpio* in relation to oxygen consumption National Symposium on Recent Trends in Biology and Biotechnology and 23<sup>rd</sup> Annual Session of the Academy of Environmental Biology organized by Department of Zoology, Shivaji University, Kolhapur (9-11 October, 2003)
- 8 **Bhilave, M.P** 2005 Plenary Lecture on “Aquaculture Practices” National Symposium on Recent Trends in Animal Reproduction: A Special Emphasis on Biotechnology organized by Department of Zoology, shri pancham Khemraj Mahavidyalaya, Sawantwadi (4-5 February, 2005)
- 9 **Bhilave, M.P** and Muley D.V 2005 Management and Economics of aquaculture Regional Workshop on Conservation and Management of lakes organized by IAAB, Hyderabad AP (22-23, April, 2005)
- 10 **Bhilave, M. P.** and S. R. Bamane 2005 A Novel Technique- Defloridation of drinking water using burnt bricks Frontiers in Environmental Sciences and Engineering in India Department of Environment Science, Bharathiar University, (15-17, September 2005) Coimbatore T.N

11 **Bhilave, M.P** and Chavan B.R 2005 “Nector carrying capacity of *apis mellifera* at Haldwani” National Symposium on Recent Trends in Environmental Biology and Biotechnological Approach to Conserve Biodiversity, organized by Department of Zoology, Gulbarga University, Gulbarga (22-24 October 2005)

12 **Bhilave, M. P.** 2006 Plenary Lecture on “Aquaculture” National Symposium on Recent Trends in Life Sciences with Special Reference to Hydrobiology and Conservations organized by Association of Zoologist and Department of Zoology, HRM Rajgurunagar Pune (16-18 February, 2006)

13 **Bhilave M.P.** and S. R. Bamane 2006 “Extraction of Bio-diesel from plant leaves” National Conference on Recent Trends in Chemistry for Rural Development organized by DMKG Science and Arts College Mangalwedha, Solapur M.S (3-4 May, 2006)

14 **Bhilave, M. P** Deshpande V.Y, Phase.S.R Pawar A.V 2006 “Marketing and economics of freshwater fishes” (case study of Kolhapur district) International Conference in Zoology organized by UGC ASC and Department of Zoology, Bangalore University, Bangalore (19-22 November, 2006)

15 **Bhilave M.P** 2007 Plenary Lecture on “Fish farm Management” national Conference on Sustainable Utilization of aquatic Resources and Marine Biotechnology organized by Department of zoology, DBJ College, Chiplun, Ratnagiri M.S (19-20, January 2007)

16 **Bhilave, M. P** and Parakhe Y.B 2007 “Avifauna of Tambave Reservoir, Satara” National Symposium in Zoology with Special Reference to Biotechnology and Bioinformatics organized by Department of Zoology and Fisheries YCIS, Satara (10-11, February, 2007)

17 **Bhilave, M. P** and V.Y. Deshpande 2007 Impact of heavy metals on freshwater fish *Cirrhinus mrigala* in relation to oxygen consumption International conference on Recent Trends in Biodiversity and Biotechnology at Department of Zoology, DrBAMU Aurangabad, (15-17, November, 2007)

18 **Bhilave, M.P** 2009 Plenary Lecture on Formulation of fish feed Trends in Applied Zoology, Environment and Biotechnology organized by Department of Zoology, Balasaheb Desai College, Patan (5-6 February, 2009)

19 **Bhilave, M.P** 2009 Plenary Lecture on “Immunology” National Conference on Recent Trends in Biodiversity and Bioscience organized by Department of Zoology, Shri Madhavrao Patil mahavidyalaya Murum, Osmanabad M.S (14-15 March, 2009)

20 **Bhilave, M.P**, Nadaf.S.B, and Deshapande, V.Y 2009 “Evaluation of consumption of formulated feed in freshwater fishes” International Symposium on Environmental Pollution, Ecology and Human Health organized by Department of Zoology, SV University, Tirupati A.P (25-27 July, 2009)

21 **Bhilave, M.P** 2009 International Conference on Darwinism-A sesqui Centennial Celebration, organized by Department of Zoology, Karnataka University, Dharwad, Karnataka (14-17, September, 2009)

- 22 **Bhilave,M.P** 2009 Chaired session National Conference on Climate Change and Challenges in Biodiversity Conservation organized by Department of zoology, Fergusson College, Pune (11-12, December 2009)
- 23 **Bhilave,M.P,** and Nalawade.V.B 2009 Formulation of fish feed from slaughter house waste National Seminar on The Impact of Wetlands on Agricultural and Fisheries Productivity organized by Department of Zoology, Padmabhushan dr Vasantodada Patil mahavidyalaya, Sangli M.S (17-18, 2009)
- 24 **Bhilave,M.P,** Nadaf.S.B 2010 Formulation of fish feed using animal ingredients National Conference on “Biodiversity Conservation in India: Status and Approach” organized by Gopal Gokhale College, Kolhapur and Indian Women Scientist’s Association, Kolhapur (8-10, January 2010)
- 25 **Bhilave,M.P,** Nadaf.S.B and Deshpande,V.Y 2010 “Growth performance and Feed Conversion Ratio of *Labeo rohita*” National Conference on “Life Science with Special Reference to Environmental Biotechnology and Biodiversity” organized by Department of Zoology, Vivekanand College Kolhapur, M.S (2 -3 February, 2010)
- 26 **Bhilave,M.P,** Bhosale.S.V and Nadaf.S.B 2010 “Nutritional analysis of fish feed formulated from Soyabean (*Glycine max*) meal” National seminar on “Present Scenario of Aquatic Biodiversity with Respect to Pollution in India” organized by Department of Zoology, Mahatma Phule ASC College, Panvel, M.S (15 -16 February, 2010)
- 27 **Bhilave,M.P** 2010 Regional seminar on “Role of NGO’S in Environmental Protection” (6<sup>th</sup> - 7<sup>th</sup> March, 2010), Kolhapur, M.S
- 28 **Bhilave,M.P,** Nadaf.S.B and Deshpande,V.Y 2010 “Evaluation of Length-Weight relationship in freshwater fish fed on formulated feed” International Conference on Environmental Pollution, Water Conservation and Health organized by Department of Zoology, Bangalore University, Bangalore (29-31 July, 2010)
- 29 **Bhilave,M.P** 2010 Chaired session National workshop on Environment, Science and Problems, organized by Scientific and Technical verbal organization new Delhi and LBS College, Satara (1-2 September,2010)
- 30 **Bhilave,M.P,** Bhosale.S.V and Nadaf.S.B 2011 “Formulation of fish feed using Mangrove leaves (*Avicenna officinalis*)” National level workshop cum Seminar on Bio Resources for Bio Industries and Economic Zoology organized by Department of Zoology, DBF dayanand College of Arts and Science, Solapur MS (24-25 January, 2011)
- 31 **Bhilave,M.P** 2011 “Formulation of fish feed using Mulberry leaves (*Morus albana*)” International Conference on Biodiversity and Aquatic Toxicology organized by Department of Zoology and Aquaculture, Acharya Nagarjuna University, Nagarjunanagar AP (12-14 February, 2011)
- 32 **Bhilave, M.P,** Nadaf.S.B, and Bhosale S.V 2011 “Gross Conversion Ratio (GCR) of *Labeo rohita* fed on formulated feed” International Conference on Sustainable Environment organized by ECO Needs Foundation Aurangabad MS (19-20 February,2011)

- 33 **Bhilave, M.P** 2011 Chaired the session National Conference on Recent Trends in Life Science with Special Reference to Animal Physiology, Biotechnology and Biodiversity organized by Department of Zoology, SGM College Karad MS (19-20 October, 2011)
- 34 **Bhilave, M.P** 2011 Chaired the session National Symposium on Biodiversity and Environment organized by Department of Zoology, Gulbarga University, Gulbarga Karnataka (3-4 November, 2011)
- 35 **Bhilave, M.P** 2011 Chaired the session National Seminar on Recent Trends and Techniques in Biodiversity organized by Department of Zoology, ASC College Palus, Dist Sangli MS (30-01 December, 2011)
- 36 **Bhilave, M.P**, Nadaf.S.B, and Bhosale S.V 2012 “Nutritional Efficiency of *Labeo rohita* fed on formulated feed” National Seminar on Advances in Zoology and Life Processes Department of Zoology, Goa University, Goa (09-11 February, 2012)
- 37 **Bhilave, M.P**, Nadaf.S.B, and Bhosale S.V 2012 “Feed Conversion Efficiency of *Labeo rohita* fed on formulated feed” National Conference on New Frontiers in Animal Science Department of PG Studies and Research in Applied Zoology, Kuvempu University, Shivamogga, Karnataka (09-11 April, 2012)
- 38 **Bhilave, M.P**, Participated in Two Days National Workshop on “Biological Terminology in Marathi” organized by Commission for Scientific and Technical Terminology (Ministry of Human Resource Development), Department of Higher Education, New Delhi at ACS college, Shreevardhan Dist Raigad (29<sup>th</sup> to 30<sup>th</sup> June, 2012)
- 39 **Bhilave, M.P**, Nadaf.S.B, and Bhosale S.V 2012 “Haematological studies on freshwater fishes” State Level Seminar on “Prospects in Inland Fishery” organized by Department of Zoology, New Arts, Commerce and Science College, Shevgaon, Dist Ahmednagar (MS) (17-18 September, 2012)
- 40 **Bhilave, M.P**, Nadaf.S.B, and Bhosale S.V 2012 “ ” II<sup>nd</sup> World Congress for Man and Nature-2012 on “Global Change: Impact on Biodiversity, Culture and Technology” organized by Sevadal Mahila Mahavidyalaya, Nagpur (MS) (3-5 November, 2012)
- 41 **Bhilave, M.P**, Nadaf.S.B, and Bhosale S.V 2012 Chaired the session at National Conference on Environmental Sciences and Health Hazards organized by Department of Biotechnology and Microbiology, Karnatak University, Dharwad, Karnataka (19-21 November, 2012)
- 42 **Bhilave, M.P**, 2012 Chaired the session at National Conference on Biodiversity Monitoring and Research Current Practice and Future Needs organized by Department of Zoology, Fergusson College, Pune (MS) (7-8 December, 2012)
- 43 **Bhilave, M.P**, 2012 Participated in organizing the International Conference on “Sustainable Water Resource Development and Management” organized by Department of Environmental Science, Shivaji University, Kolhapur (MS) (20-21 December, 2012)
- 44 **Bhilave, M.P**, 2012 Chaired the session at National Conference on Recent Trends in Applied Zoology organized by Department of Zoology and Fisheries, Yashwantrao Chavan Institute of Science, Satara (MS) (28-29 December, 2012)

- 45 **Bhilave, M.P**, 2013 Delivered plenary talk on “Evaluation and Biodiversity\_ Fish Feed Products” organized by Dr Patangrao Kadam Mahavidyalaya, Sangli (MS), INTERNSHIP PROGRAMME 2013 Sponsored by DST, New Delhi (09 January, 2013)
- 46 **Bhilave, M.P**, 2013 Participated in National Seminar on Emerging Trends in Indian Aquaculture organized by Department of Aquatic Biology and Fisheries, University of Kerala, Kariavottom, Thiruvananthapuram, Kerala (21-23 March, 2013)
- 47 **Bhilave, M.P**, 2013 Invited Talk at Two Days National Seminar on Recent Trends in Cell Biology, Biotechnology and Bioinformatics organized by Department of Zoology, Balwant College, Vita, MS (06-07September, 2013)
- 48 **Bhilave, M.P**, 2013 Member of Expert Panel for Poster Presentation at National Conference on Frontiers in Chemical and Biological Sciences organized by Padmabhushan Dr Vasantaoada Patil Mahavidyalaya, Tasgaon, Dist Sangli MS (23-24 September, 2013)
- 49 **Bhilave, M.P**, Nalawade V B 2013 Participated and presented paper in International Conference on Biosciences with Special Reference to Environmental Issues organized by Department of Zoology, Shivaji University, Kolhapur MS (19-21December, 2013)
- 50 **Bhilave, M.P** 2014 Participated and presented paper in Global Summit on Emerging Science and Technologies: Impact on Environment and Human Health organized by Department of Biotechnology, Vikrama Simhapuri University, Nellore, AP (01-03 August, 2014)
- 51 **Bhilave, M.P** 2014 Participated in National Symposium on “Waste and Biomass valorization: Potential, Issues and Challenges” organized by Indore Institute of Science and Technology, Indore, MP (12-13 September, 2014)
- 52 **Bhilave, M.P** 2015 Participated and presented paper in National Conference on ‘Innovative Ideas and Research in Life Sciences for Sustainable Development’ organized by Department of Zoology, Nowrosjee Wadia College of Arts and Science, Pune, MS (16-17January, 2015)
- 53 **Bhilave, M.P** Kulkarni JJ 2015 Participated and presented paper in National Conference on “Recent Advances in Applied Zoology” organized by Department of Zoology, Shankarrao Mohite Mahavidyalaya, Akulj , MS (06-07January, 2015)
- 54 **Bhilave, M.P** Nalawadw VB 2015 Participated and presented paper in National Conference on “ Recent Trends in Life Sciences” organized by Department of Zoology and Botany, Jaysingpur College, Jaysingpur, Kolhapur, MS (06-07 February, 2015)
- 55 **Bhilave, M.P** 2015 Participated and presented paper in Regional Meet on Science Education organized by Regional Institute of Education, NCERT, Bhopal, MP (28 February, 2015)
- 56 **Bhilave, M.P** Nalawadw VB 2015 Participated and presented paper in International Conference on “Contemporary Research in Chemical and Life Sciences-2015” organized by Sadguru Gadge Maharaj College, Karad, MS (22-23April, 2015)
- 57 **Bhilave MP** 2015 Invitee talk : Management of Aquaculture and Chairperson at National Conference on “Recent Trends in Life Science” organized by Department of Zoology, SM Joshi College, Hadapsar, Pune, MS (10-11 July, 2015)

58 **Bhilave, M.P** 2015 Participated and presented paper in National Conference on “Harmony with Nature in Context of Bioresources and Environmental Health” (HARMONY 2015) organized by Department of Zoology, Dr Babasaheb Ambedkar Marathwada University, Aurangabad, MS (23-25 November, 2015)

59 Nalawade VB, **Bhilave MP** and Dethe RP 2016 Participated and presented paper in International Conference on “Opportunities and Challenges before 21<sup>st</sup> Century India” Organized by Rajarsi Chhatrapati Shahu College, Kolhapur, MS (6-7 February, 2016)

60 **Bhilave, M.P** 2016 Participated as Resource Person at National Conference on “Innovative Research in Life science” Organized by Sinhgad College of Science, Pune, MS (26-27 February 2016)

61 **Bhilave M.P** 2016 Participated and presented paper in National Conference on “ Harmony with Nature in Context of Resource Conservation and Climate Change” Organized by Department of Zoology, Botany, Biotechnology and Geology, Vinoba Bhave University, Hazaribag, Jharkhand, (22-24 October, 2016)

62 **Bhilave M.P** 2016 Chaired the session at National Conference on “ Harmony with Nature in Context of Resource Conservation and Climate Change” Organized by Department of Zoology, Botany, Biotechnology and Geology, Vinoba Bhave University, Hazaribag, Jharkhand, (22-24 October, 2016)

63 **Bhilave, M.P**, 2016 Chaired the session at Environment al Problems and Biodiversity Workshop organized by Department of Zoology, LBS College, Satara (MS) (24-25 January, 2016)

64 **Bhilave,M.P** 2017 Chaired the session One Day Workshop on “ Maharashtra Public University Act 2016” organization by Shivaji University Post Graduate Teachers Association (SUPTA) (6, January,2017)

65 **Bhilave M.P**, Desai T.H 2017 Participated and presented poster in National Conference on “ Materials and Environmental Science” Organized by shri Yashwantrao Patil Science College, Solankur, Tal Radhanagri, Dist Kolhapur, Maharashtra (15 February, 2017)

66 **Bhilave M.P**, 2017 Participated and presented paper in Two Day’s National Conference on “Rural Livelihood Models for Sustainable Development” Organized by Yashwantrao Chavan School of Rural Development (YCSR), Shivaji University, Kolhapur, Maharashtra (14-15 September, 2017)

67 **Bhilave M.P**, 2017 Participated and presented paper in 87<sup>th</sup> Annual Session and Symposium on “Basic Research- Its Role in National Development” Organized by The National Academy of Sciences, India (NASI), Savitribai Phule Pune University, Pune, Maharashtra (08-10 December, 2017)

68 **Bhilave M.P**, 2018 Participated and presented paper in National Conference on “Recent Advances in Zoology” (NCRAIZ 18) Organized by Department of Zoology, Raje Ramrao Mahavidyalaya, Jath, Maharashtra (13 January, 2018)



- 69 **Bhilave M.P.**, 2018 Participated and Chaired a session in National Conference on “Recent Advances in Zoology” (NCRAIZ 18) Organized by Department of Zoology, Raje Ramrao Mahavidyalaya, Jath, Maharashtra (13 January, 2018)
- 70 **Bhilave M.P.**, 2018 Participated and presented paper in International Interdisciplinary Conference on “Curriculum Reforms in Higher Education: Global Scenario” (IICCRHE 2018) Organized by Department of Education, Electronics, Computer Science and Internal Quality Assurance Cell, Shivaji University, Kolhapur, Maharashtra (04-06 February, 2018)
- 71 **Bhilave M.P.**, 2018 Participated and presented paper in, National Conference on “Role of Commerce and Management in Emerging Economies” Organized by Department of Commerce and Management, Shivaji University, Kolhapur, Maharashtra (16-17 March, 2018)
- 72 **Bhilave M.P.**, 2019 Participated and presented paper in, National Seminar on “Recent Trends in Life Sciences” Organized by Department of Zoology, Poona College of Arts, Science and Commerce, Pune, Maharashtra (04-05 January, 2019)
- 73 **Bhilave M.P.**, 2019 Participated and presented paper in, International Conference on “Advances in Pure and Applied Sciences (ICAPAS-2019)” Organized by Balwant College, Vita, Maharashtra (05-06 January, 2019)
- 74 **Bhilave M.P.**, 2019 Participated and presented paper in, 5<sup>th</sup> International Conference on “Environment and Ecology” (ICEE-2019)” Organized by Christ College, Pune, Maharashtra (18-20 February, 2019)
- 75 **Bhilave M.P.**, 2019 Participated and presented paper in, One Day National Conference on “Recent Trends in Life Sciences (RTLS-19)” Organized by Department of Zoology, Vidnyan Mahavidyalaya, Sangola, Tal Sangola, Dist Solapur, Maharashtra (14 December, 2019)
- 76 **Bhilave M.P.**, 2019 Participated and worked as a Resource Person in, One Day National Conference on “Recent Trends in Life Sciences (RTLS-19)” Organized by Department of Zoology, Vidnyan Mahavidyalaya, Sangola, Tal Sangola, Dist Solapur, Maharashtra (14 December, 2019)
- 77 **Bhilave M.P.**, 2000 Participated and presented paper in, 107<sup>th</sup> Indian Science Congress on “Science and Technology: Rural Development” held at University of Agricultural Sciences, Bangalore, Karnataka (03-07 January, 2020)
- 78 **Bhilave M.P.**, 2000 Participated and presented paper in, International Conference on “Sustainable Development: Goals for 21<sup>st</sup> Century” held at Chhatrapati Shahu Institute of Business Education and Research (CSIBER), Kolhapur, Maharashtra (10<sup>th</sup> January, 2020)
- 79 **Bhilave M.P.**, 2000 Participated and presented paper in, 2<sup>nd</sup> National Conference on “Recent Trends in Pure and Applied Science” Dr Patangrao Kadam Mahavidyalaya, Sangli, Maharashtra (11<sup>th</sup> January, 2020)
- 80 **Bhilave M.P.**, 2000 Participated and presented paper in, National Conference on “Interdisciplinary Approaches in Life Sciences (NCIALS-2020)” organized by Department of Zoology and Department of Biotechnology, Yashwantrao Chavan Institute of Science, Satara, Maharashtra (2<sup>nd</sup> and 3<sup>rd</sup> February, 2020)

81 **Bhilave M.P**, 2000 Participated and Chaired the Session in, National Conference on “Interdisciplinary Approaches in Life Sciences (NCIALS-2020)” organized by Department of Zoology and Department of Biotechnology, Yashwantrao Chavan Institute of Science, Satara, Maharashtra (2<sup>nd</sup> and 3<sup>rd</sup> February, 2020)

82 **Bhilave M.P**, 2000 Participated and Chaired the Session in, National Conference on “Emerging Trends in Zoology and Biotechnology” organized by Department of Zoology and Department of Biotechnology, SGM College, Karad, Maharashtra (7<sup>th</sup> March, 2020)

83 **Bhilave M.P**, 2000 Participated and presented paper in, National Conference on “Emerging Trends in Zoology and Biotechnology” organized by Department of Zoology and Department of Biotechnology, SGM College, Karad, Maharashtra (7<sup>th</sup> March, 2020)

84 **Bhilave M.P**, 2021 Participated and presented paper in, International e-Conference on “Conservation of Wild Taxa: Present Scenario” organized by Department of Botany, Shri Yashwantrao Patil Science College, Solankur, Tq Radhanagri, dist Kolhapur, Maharashtra (5<sup>th</sup> February, 2021)

85 **Bhilave M.P**, 2021 Participated as Resource Person in, A National Webinar on “Marine Biodiversity and Aquaculture” organized by Department of Zoology, Dr Babasaheb Ambedkar College of Arts, Science and Commerce, Mahad, Dist Raigad, Maharashtra (8<sup>th</sup> and 9<sup>th</sup> April, 2021)

86 **Bhilave M.P**, 2021 Participated and Presented research paper in the National e Conference on “Biodiversity Conservation: Strategies for Better Tomorrow” organized by Department of Zoology & IQAC, Dada Patil Mahavidyalaya Karjat, Dist Ahmednagar Maharashtra (8<sup>th</sup> and 9<sup>th</sup> September, 2021)

87 **Bhilave M.P**, 2021 Participated and Presented research paper in the International e Conference on “Advances in Material Sciences, Bio-sciences & Information Technology (ICAMSBSIT 2022)” organized by Faculty of Sciences in association with IQAC, Mahatma Phule Arts, Science & Commerce College, Panvel Maharashtra (26<sup>th</sup> February, 2022)

88 **Bhilave M.P**, 2022 Participated and Presented research paper in Two Days Online International Conference on “Advances in Science and Technology ICAST 2022” organized by Rajarshi Chhatrapati Shahu College, Kolhapur, Maharashtra (9<sup>th</sup> and 10<sup>th</sup> March, 2022)

89 **Bhilave M.P**, 2022 Participated and Chaired the session at the National Conference on “Recent Advances in Development and Reproductive Biology” organized by Department of Zoology Arts, Commerce & Science College, Palus, Dist Sangli Maharashtra (10<sup>th</sup> March, 2022)

90 **Bhilave M.P**, 2022 Participated and Chaired the session at the International Conference on “Innovative Trends in Life Sciences” organized by Sadguru Gadage Maharaj College, Karad Dist Satara Maharashtra (11<sup>th</sup> & 12<sup>th</sup> March, 2022)

91 **Bhilave M.P**, 2022 Participated and Presented research paper at the International Conference on “Innovative Trends in Life Sciences” organized by Sadguru Gadage Maharaj College, Karad Dist Satara Maharashtra (11<sup>th</sup> & 12<sup>th</sup> March, 2022)

92 **Bhilave M.P**, 2022 Participated and Presented research paper at the International E Conference on “Global, Regional & Local Prespective on Sustainable Livelihoods: Health care, Wildlidge, Water, Energy, Agriculture Climate Cgange & Geo-spatial Technologies” organized by Coal City University, Nigeria & Mudhoji College, Phaltan & DP Bhosale College, Koregaon, Maharashtra (25<sup>th</sup> & 26<sup>th</sup> May, 2022)

93 **Bhilave M.P**, 2022 Participated and Presented research paper at the International Multidisciplinary E Conference on “Recent Trends, Challenges & Issues in Science, Social Science & Languages for Sustainable Development ” organized by Jawahar Arts, Science & Commerce College, Andur, Tq Tuljapur, Dist Osmanabad, Maharashtra (4<sup>th</sup> August, 2022)

94 **Bhilave M.P**, 2022 Participated and Presented research paper at the International E Conference on “Modern Research in Science, Social Science & Languages ” organized by Bharat Mahavidyalaya, Jeur, Dist Osmanabad, Maharashtra (12<sup>th</sup> August, 2022)

95 **Bhilave M.P**, 2022 Participated and Presented research paper at the National Seminar on “Climate Smart Sericulture 2022: Approaches for Sustainable Sericulture” organized by Central Silk Board, Ministry of Textiles, Government of India, Bengaluru, Karnataka (October 6-7,2022)

96 **Bhilave M.P**, 2023 Participated and Invited talk on “Empowerment of rural masses through formulation of fish feed” at 108<sup>th</sup> Indian Science Congress on Science and Technology for Sustainable Development with Women Empowerment hosted at RTM Nagpur University, Nagpur (3-7 January,2023)

97 **Bhilave M.P**, 2023 Participated and presented paper on “Study of SOD activity caused due to toxic effect of insecticide Emamectin Benzoate in freshwater fish *Labeo rohita*” at Second International conference on “Emerging Trends in Basic & Applied Sciences (ETBAS 2023)” held at Karmaveer Hire ASC & Education College, Garoti, Tq Bhudargad, Kolhapur (17 January,2023)

98 **Bhilave M.P**, 2023 Participated and presented paper on “Alterations in haematological Parameters of *Cirrhinus mrigala* after acute exposure to Methanol” at National conference on “Animal Sciences: Integrated Solutions for Sustainability” Organized by School of Biological Sciences & Biotechnology, Goa University, Goa (01-03 March, 2023)

99 **Bhilave M.P**, 2024 Participated and presented invited talk on “Biodiversity Conservation: Need of time” at National conference on “Biodiversity Conservation” Organized by Department of Zoology, ASC College, Palus, Sangli, Maharashtra (22 February, 2024)

100 **Bhilave M.P**, 2024 Participated as Chairperson & Coordinator of Project at “National Science Day Celebration 2024” on the focal theme “Indigenous Technologies for Viksit Bharat” Organized by Department of Electronic, Shivaji University, Kolhapur, Maharashtra (26<sup>th</sup> February, 2024 to 2<sup>nd</sup> March 2024)

101 **Bhilave M.P**, 2024 Participated and presented research paper on “Hematological alterations in freshwater fish *Cirrhinus mrigala* on insecticide Pirimicarb” at International conference on “The New Horizons in Life Science” Organized by Department of Zoology-Fisheries, Yashvantrao Chavan Institute of Science (Autonomous) Satara, Maharashtra (20-21 March, 2024)

102 **Bhilave M.P**, 2024 Participated and chaired the session at International conference on “The New Horizons in Life Science” Organized by Department of Zoology-Fisheries, Yashvantrao Chavan Institute of Science (Autonomous) Satara, Maharashtra (20-21 March, 2024)

103 **Bhilave M.P**, 2024 Participated and presented the paper at Animal Taxonomic Summit 2024 Organized by Zoological Survey of India, Kolkata, West Bengal (30 June – 03 July, 2024)

## APPENDIX – III

### PARTICIPATION IN WEBINAR

| SR.NO | DATE OF ACTIVITY | DETAILS OF ACTIVITY  |
|-------|------------------|--|
| 1     | 12/05/2020       | Online Quz Competition in Zoology, organized by Department of Zoology, Dr Homi Bhabha State University, Institute of Science, Mumbai   |
| 2     | 13/05/2020       | Online COVID 19 Pandemic General Awarness Quiz, organized by IQAC Shrimant Babasaheb Deshmukh Mahavidyalaya, Atpadi, Maharashtra   |
| 3     | 15/05/2020       | National Online Workshop o Research Ethics and Plagiarism Control, organized by Department of Lifelong Learning & Extension, University of Mumbai  |
| 4     | 15/05/2020       | Online COVID 19 Awareness Quiz, organized by Indian Pharmaceutical Associatn,Mumbai  |
| 5     | 16/05/2020       | International Conference on Higher Education Digitization, Innovation Society, Mumbai  |
| 6     | 15-17/05/2020    | International E Conference onStrategies & Chalenges in Higher Education during COVID 19 Lockdown, organized by Government Vidarbha Institute of Science & Humanities, AmravatimMaharashtra |
| 7     | 19-20/05/2020    | Sports E Quiz, organized by Department of Physical Education & Sports University, Tirunelveli, TN  |
| 8     | 20/05/2020       | Online E Quiz series on COVID 19, organized by Department of Biotechnology & Microbiology, Udaipur University Rajasthan  |
| 9     | 20/05/2020       | National Webinar on Preparing Nets Today for Fishing Tomorrow, organized by IQAC, Womens College of Commerce, Surat  |
| 10    | 20/05/2020       | International Weinar on Perspective towards the wae of COVID 19, organized by Department o Zoology & Microbiology, Dahiwadi College, Dhahiwadi, Satara                                     |
| 11    | 21/05/2020       | Online Awaress Quiz on Basic in Cell Biology, organized by Department of Zoology, Rajarshi Chhatrapati Shahu College, Kolhapur   |
| 12    | 22/05/2020       | Online Quiz on Biological Diversity, organized by Sharnbasva University, Karnataka   |
| 13    | 22/05/2020       | National Webnar on Biodiversity& its Conservation, organized by Department of Botany & IQAC, Raje Ramrao Mahavidyalaya, Jath, Maharashtra  |
| 14    | 22/05/2020       | National Webinar on Biodiversity Conservation & Sustainable Development, organized by Department of Zoology, PG Girls College, Chhindwara, MP  |
| 15    | 22/05/2020       | Quiz on Biological Diversity, organized by RJ College of ASC, Ghatkopar, Mumbai  |

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| 16 | 22/05/2020    | Quiz on Biological Diversity, organized by Department of Zoology, Shri Yashwantrao Patil Science College, Solankur, Kolhapur                   |
| 17 | 23/05/2020    | National Level 1 <sup>st</sup> Quiz on Bird Identification, organized by Department of Zoology, Mudhoi College, Phaltan                        |
| 18 | 23/05/2020    | International Webinar on Atmanirbhar Bharat, organized by Mumbai University  |
| 20 | 22-23/05/2020 | Webinar on Food & Nutrition, Immunomodulation to fight COVID 19, organized by Department of Zoology & Biotechnology, AKS University, Satna, MP |
| 21 | 23/05/2020    | Online Quiz on General Awareness in Turtles, organized by Department of Zoology, Smt Meenalben Metha College, Panchangi, Satara                |
| 22 | 24/05/2020    | Quiz competition in Zoology, organized by ASC College, Badnapur, Jalna   |
| 23 | 25/05/2020    | Quiz on Educational Research Methodology, AICE, Nashik   |
| 24 | 26/05/2020    | National Level 2 <sup>nd</sup> Quiz on Bird Identification, organized by Department of Zoology, Mudhoi College, Phaltan                        |
| 25 | 26/05/2020    | National Webinar on Writing Research Paper & Publishability: Issue & Concerns, organized by IQAC, Womens College of Commerce, Surat            |
| 26 | 27/05/2020    | Online Ecology Quiz, organized by AICE, Nashik   |
| 27 | 28/05/2020    | Social Entrepreneurship, organized by Hinduja College of Commerce, Mumbai  |
| 28 | 29/05/2020    | Online Quiz on Zoology, organized by Department of Zoology, ASC College, Chalisgaon, Jalgaon   |
| 29 | 29/05/2020    | Online Quiz on Prime Ministers Self Reliant India Movement, organized by Soundarya Institute of Management, Bangalore                          |
| 30 | 29/05/2020    | Webinar on Use of Modern Technology in Daily Teaching, organized by Vaishnavi Mahavidyalaya, Beed  |
| 31 | 28-30/05/2020 | Online Quiz on Machine Learning, organized by MET Nashik   |
| 32 | 30/05/2020    | Webinar on Importance of Concentration in E Learning, organized by VKK College, Mumbai   |
| 33 | 30/05/2020    | Webinar on Nanomaterials, organized by ASC College, Palghar  |
| 34 | 31/05/2020    | Quiz on World No Tobacco Day, organized by VP Mahavidyalaya, Tasgaon, Sangli   |
| 35 | 31/05/2020    | Webinar on Livelihood Business Incubation, organized by Department of Zoology, Dahiwadi College, Dahiwadi                                      |
| 36 | 01/06/2020    | Online Quiz on Self Awareness & Health Care, organized by Department of Zoology, Rajaram College, Kolhapur                                     |
| 37 | 03/06/2020    | Trends in Waste Water Treatment, organized by PET Engineering College, Vallioor, TN  |

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| 38 | 04/06/2020 | Quiz on Environmental Awareness, organized by Womens College of Commerce, Surat  |
| 39 | 05/06/2020 | E Quiz on World Environment Day, organized by Department of Botany & IQAC, Shahu College, Kolhapur                                     |
| 40 | 05/06/2020 | E Quiz on World Environment Day, organized by Department of Botany, Rizvi College, Mumbai  |
| 41 | 05/06/2020 | E Quiz on World Environment Day, organized by School of Life Science, ITM University, Raipur   |
| 42 | 05/06/2020 | E Quiz on World Environment Day, organized by Department of Zoology, VP Mahavidyalaya, Tasgaon, Sangli                                 |
| 43 | 05/06/2020 | E Quiz on Extinct & Endangered animals, organized by Department of Zoology, New College, Kolhapur                                      |
| 44 | 05/06/2020 | E Quiz on World Environment Day, organized by Department of Zoology, ASC College, Ichalkaranji, Kolhapur                               |
| 45 | 05/06/2020 | Online Quiz on World Environment Day, organized by Department of Zoology, VY Mahavidyalaya, Peth Vadgaon, Kolhapur                     |
| 46 | 06/06/2020 | Webinar on Impact of COVID 19 on Indigenous Peoples in India, organized by Lokmanya Mahavidyalaya, Warora                              |
| 47 | 06/06/2020 | Online International COVID 19 Awareness Quiz, organized by Rajiv Gandhi University, Papumpare, AP                                      |
| 48 | 06/06/2020 | Effective Online Teaching Strategies, hosted by MIIM, Kerala   |
| 49 | 06/06/2020 | Online Quiz on Contribution of Indian Mathematicians to the World, organized by JECRC, Jaipur  |
| 50 | 07/06/2020 | E Quiz on Environment & Biodiversity, organized by Department of Botany, Microbiology & Zoology, PG College, Rajnandgaon, Chhattisgarh |
| 51 | 08/06/2020 | Online Quiz on JAVA Programming Language, IQAC, University of Mumbai   |
| 52 | 08/06/2020 | Online Quiz on Basic Accounting, hosted by E School, Mumbai  |
| 53 | 09/06/2020 | E Quiz, organized by Bharathiar University, TN   |
| 54 | 10/06/2020 | Quiz on Computer Awareness, organized by Department of Computer Science, Chaitanya University, Telangana                               |
| 55 | 10/06/2020 | Knowledge Thirst E Quiz, organized by Bharathiar University, TN  |
| 56 | 10/06/2020 | National Quiz on Indian Policy, organized by Sir CR Reddy College, AP  |
| 57 | 11/06/2020 | Webinar on One Earth One Love: Biodiversity & Environmental Conservation, organized by Kishinchad Chellaram College, Mumbai            |
| 58 | 11/06/2020 | COVID 19 online awareness Quiz, organized by Dr NGP Institute of Technology, Coimbatore, TN  |

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| 59 | 13/06/2020 | International Webinar on ROS Mediated Control & Cure for Cancer, organized by Dr NGP Institute of Technology, Coimbatore, TN                                |
| 60 | 13/06/2020 | Webinar on COVID 19 Pandemic & Mental Health, organized by Dr PK Mahavidyalaya, Sangli  |
| 61 | 13/06/2020 | Webinar on Polypheno Based Surface Engineered Nanomaterials for Improved Therapeutics, organized by Kongunadu A & C College, Coimbatore, TN                 |
| 62 | 14/06/2020 | Webinar on COVID 19: Global Lockdown V/S Global Environment, Bareilly College, Bareilly   |
| 63 | 16/6/2020  | Online Zoology Test Series, organized by Maulana Azad College of ASC, Aurangabad  |
| 64 | 16/06/2020 | E Quiz on Botany, organized by Sri Meenakshi Government, Madurai  |
| 65 | 18/06/2020 | National Seminar on Research Panorama of Life Sciences, organized by Rajaram College, Kolhapur  |
| 66 | 18/06/2020 | National Webinar on Intellectual Property Rights, organized by Balasaheb Desai College, Patan, Satara   |
| 67 | 19/06/2020 | COVID 19 Virus structure, Pathogenesis & Boosting of Immune System, organized by Department of Microbiology & Zoology, Dahiwadi College, Dahiwadi           |
| 68 | 20/06/2020 | Online Quiz on Zoology, organized by Department of Zoology, SBK College, Aruppukottai, TN   |
| 69 | 20/06/2020 | Webinar on Stress Management & Immunity Building amidst COVID 19, organized by Womens College of Commerce, Surat  |
| 70 | 21/06/2020 | Webinar on Lockdown- Healthy Solution for Boredom, organized by Dr PK Mahavidyalaya, Sangli   |
| 71 | 23/06/2020 | To be Friendly with Corona- a Need of Time, organized by Dr PK Mahavidyalaya, Sangli  |
| 72 | 25/07/2020 | Quiz on Snakes, organized by Department of Zoology, SGM College, Karad, Satara  |
| 73 | 28/07/2020 | Impact of Covid 19 on Indian Economy & Policy forward, organized by Kerala College, Kerala  |
| 74 | 29/07/2020 | Online National Awareness Quiz on International Tiger Day, organized by Department of Zoology, ASC Palus, Sangli  |
| 75 | 29/07/2020 | National Webinar on Let Us Save The Tiger, organized by Dr PK Mahavidyalaya, Sangli   |
| 76 | 29/07/2020 | National Webinar on Career Opportunities in Physical & Mathematical Sciences, organized by Shri Shivaji Science & Arts College, Buldana                     |
| 77 | 05/08/2020 | National Webinar on Environmental Assessment of COVID 19 organized by Department of Geography & IQAC Shri Madhavrao Patil Mahavidyalaya, Murum, Maharashtra |
| 78 | 06/08/2020 | National Level Quiz on COVID 19, organized by Vidyankur Education   |
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| 79 | 08/0/2020  | National Webinar on Scorpion: The Incredible Arachids, organized by Department of Zoology, Assam Don Bosco University  |
| 80 | 09/08/2020 | National Awareness Quiz on Independence Day, organized by ASC College, Palus, Dist Sangli  |
| 81 | 24/08/2020 | National Webinar on Impact of Covid 19 Pandemic on Indian Economy organized by Dr Babasaheb Ambedkar College of Arts, Science & Commerce, Mumbai   |
| 82 | 27/08/2020 | Quiz Competition on the occasion of National Sports Day 2020 organized by Department of Physical Education, Shri Varshney College, Aligarh   |
| 83 | 04/09/2020 | National Webinar on Agricultural Pests Management organized by Department of Zoology & IQAC Kisan Veer Mahavidyalaya, Wai, Satara  |
| 84 | 05/09/2020 | E Test on Teachers Day 2020 organized by MKCL  |
| 85 | 07/09/2020 | National Level Quiz on COVID 19, organized by Vidyankur Education  |
| 86 | 30/11/2020 | National Webinar on Faunal Diversity and Prospects of Life Sciences, organized by Department of Zoology, Karnatak Science College, Dharwad   |
| 87 | 10/02/2021 | Online Workshop on Glass Fish Aquarium: Construction, Management and Maintenance, Organized by Department of Zoology & IQAC, Krishna Mahavidyalaya, Rethare Bk, Satara   |
| 88 | 13/02/2021 | Online Teachers Training Workshop on “New Changed Syllabus of BSc III Zoology” Organized by Department of Zoology & IQAC, Dr Patangrao Kadam Mahavidyalaya, Sangli, MS   |
| 89 | 08/03/2021 | National Webinar on “Aquatic Biomes and Lake Ecosystem” Organized by Department of Zoology, Dahiwadi College, Dahiwadi, Tq Man, Dist Satara, Maharashtra   |
| 90 | 07/10/2021 | Online Webinar on “Cardiovascular Diseases” Organized by Department of Chemistry & IQAC in Association with Staff Academy Dr Patangrao Kadam Mahavidyalaya, Sangli Maharashtra   |
| 90 | 12/10/2021 | National Webinar on “Recent Trends in Zoology, Planaria Diversity & Regeneration” Organized by Department of Zoology & IQAC, Dadasaheb Jotiram Godse Arts, Commerce, Science College, Tq Khatav Dist Satara, Maharashtra |

## APPENDIX – IV

### PARTICIPATION IN TRAINING/WORKSHOP ETC

1. Training Course in “Farming of Edible Oysters” conducted by CMFRI Tuticorin (T.N.) (15-24 March, 1994)
2. State Level Training on “Advances in Freshwater Prawn Farming” at College of Fisheries, Dr. B.S. Kokan Krishi Vidyapeeth, Ratnagiri (M.S.) (24-28 September, 2002).
3. Training Programme on “Quality Assurance in Export of Seafood Products”, organized by College of Fisheries, Dr. B.S. Kokan Krishi Vidyapeeth, Ratnagiri (M.S.) (2-11 August, 2005).
4. Application Remote Sensing in Geography, organized by Department of Geography, Shivaji University, Kolhapur (23 February, 2006).
5. *85<sup>th</sup> Orientation Course at Pondicherry University, Pondicherry. (03-30 August, 2006)*
6. Communities Right to know in Environment Democracy, organized by Department of Environmental Science, Shivaji University, Kolhapur (10 March, 2007).
7. *180<sup>th</sup> Refresher Course in Environmental Awareness at UGC Academic Staff College, H.P, Shimla (25/07- 14/08/2007)*
8. Faculty Development Programme, organized by Maharashtra Centre For Entrepreneurship Development, Kolhapur (11/12 -20/12/2007)
9. One-day workshop on ELECTROSEPARATION TECHNIQUES IN BIOTECHNOLOGY organized by Department of environmental Science, Shivaji University, Kolhapur (29/12/2007)
10. Workshop on NAAC Reaccreditations, organized by Shivaji University, Kolhapur. (15 March, 2008).
11. One-day workshop on BIODIVERSITY: CONSERVATION AND MANAGEMENT organized by Maharashtra Academy of Sciences (23/10/2008).
12. 4<sup>th</sup> National level training workshop on Immunological Techniques organized by Lady Dock College, Madurai T.N., (January 27- February 5,2009)
13. One-day workshop on ORGANIC FOOD AND ORGANIC FARMING organized by Centre for Community Development, Shivaji University, Kolhapur (06/09/2010)
14. National workshop on “Recent Advancements in Biotechnology and Biochemical Engineering” organized by Department of Chemical Engineering, IPS Academy, Indore (MP). (20-22 October 2010)
15. Workshop on “research writings, Ethics, Plagiarism and Publishability” organized by Internal Quality Assurance Cell (IQC), Shivaji University, Kolhapur (MS) (26-27/07/2012)
16. Workshop on “A Brain Storming Session for Application for Sustainable Development in The State of Maharashtra” organized by Maharashtra Academy of Sciences and Shivaji University, Kolhapur (26-27/11/2012). Served as resource person
17. State level seminar-cum-workshop on “Integration of Computer Assisted Learning Resources in Animal Experiments” organized by School of Life Sciences, Swami Ramanand Teerth Marathwada University, Nanded (MS) (22-23 February, 2013)

18. Workshop on “Outcome Based Modular Syllabus” organized by Internal Quality Assurance Cell (IQAC) under Lead College Scheme, Shivaji University, Kolhapur (06, August, 2014)
19. National Training Workshop on “Taxonomy and Conservation of Herpetofauna” organized by Department of Zoology, Balasaheb Desai College, Patan and Indian Herpetological Society, Pune (27-30 September, 2014)
20. One day workshop on “Training for Turnitin/iThenticate: Plagiarism Software” organized by Barr Balasaheb Khardekar Library, Shivaji University, Kolhapur (10 February, 2015)
21. *Refresher Course in Life Science (Interdisciplinary) UGC Academy Staff College, Bharathiar University, Coimbatore, TN 06-26/05/2015*
22. National Workshop (Training Program) on RIGHTS OF WOMEN jointly organized by National Human Rights Commission and Department of Political Science, Shivaji University, Kolhapur, MS (31/10/2015)
23. One Day Workshop on “Applied Zoology” organized by Yashvantrao Chavan Institute of Science, Satara. MS. Resource Person, Topic: Water Analysis. (07, January, 2017)
24. International Women’s Day Workshop on the “Contribution of Men in the Prevention of Violence against Women” organized by Centre for Women’s Studies Shivaji University, Kolhapur (08 March, 2017)
25. Two Days National Workshop on “Big Data Analytics with Hadoop” organized by Department of Computer Science, Shivaji University, Kolhapur (5-6 April, 2017)
26. Faculty Development Programme on “Android Developer Fundamentals” organized by Department of Computer Science, Shivaji University, Kolhapur and Google Developers (4-8 July, 2017)
27. Participated as Resource Person for topic Water Analysis in “One Day Workshop on Applied Zoology” Organized by Department of Zoology and Fisheries, Yashvantrao Chavan Institute of Science, Satara, Maharashtra (9 January, 2018)
28. Participated as Resource Person for topic Trends in Fisheries at Regional Workshop on “recent Trends in Fisheries and Aquaculture” Organized by Department of Zoology, Shri Shivaji Mahavidyalaya, Barshi, Maharashtra (24 January, 2018)
29. Participated in UGC Sponsored Short Term Course on Research Methodology, Organized by UGC HRDC Dr Babasaheb Ambedkar Marathwada University, Aurangabad, MS, (05-10 March, 2018)
30. Participated in One Day Workshop on Student Centric Teaching Learning Methods, Organized by Department of Education and IQAC, Shivaji University, Kolhapur, MS, (22 June, 2018)
31. Participated in One Day Workshop on “UGC SWAYAM AND MOOC’S” Organized by Shivaji University, Kolhapur, MS, (22 May, 2018)
32. Participated, Course Coordinator and Chaired the session in Value Added Course on “Ornamental Fish Breeding, Rearing and its Management”, Organized by Department of Zoology, Shivaji University, Kolhapur, and College of Fisheries, Shirgaon, Ratnagiri, Dr Balasaheb Sawant Kokan Krishi Vidyapeeth, Dapoli, MS, (23 – 28 July, 2018)
33. Participated, and Chaired Session in Value Added Course on “Integrated Pest Management”, Organized by Department of Agrochemical and Pest Management, Shivaji University, Kolhapur, MS, (08 – 14 August, 2018)

34. Participated as Resource Person in One Day Workshop on “Fish Farming” Organized by Department of Zoology, SGM College, Karad, MS, (30 August, 2018)
35. Participated as Resource Person in One Day Workshop on “Freshwater Fish Culture” Organized by Department of Zoology, Shri Yashwantrao Patil Science College, Solankur, Tal Radhanagari, Kolhapur, MS, (24 September, 2018)
36. Participated in Faculty Development Programme in Cyber Security and Data Sciences, Organized by Shivaji University, Kolhapur, Maharashtra (01-07 January, 2019)
37. One Day Workshop on Smart Classroom: Technology-Aids for Effective Teaching and Learning Organized by CSIBER, Kolhapur and IIT Bombay, Maharashtra (05 April, 2019)
38. Examiner for Avishkar 2020 Organized by Dr Babasaheb Ambedkar Marathwada University, Aurangbad, Maharashtra (20-21 January, 2020)
39. Committee Member in “Science Week” under the theme of “azadi Ka Amrit Mahatsov” organized by SAIF, DST Centre, Shivaji University, Kolhapur (22-28 February, 2022)
40. Participated, in “Value Added Course in Bioinformatics, organized by Department of Zoology, Shivaji University, Kolhapur, and sponsored by DST-PURSE Phase II (22 – 27 August, 2022)
41. Participated in panel discussion on “University-Industry Linkages: Employability & Entrepreneurship Development organized by University-Industry Interaction Centre, Shivaji University, Kolhapur (July 12, 2023)
42. Participated as Chief Guest for Science Exhibition under National Science Day 2024, organized by Seventh Day Adventist Higher Secondary School, Kolhapur On 28<sup>th</sup> February 2024

## APPENDIX – V

### EXPERIENCE

| Sr. No. | Designation                                   | Duration                      | Place   |
|---------|---|-------------------------------|---|
| 1       | Lecturer<br>(Sr. College)                     | July 1991 to May 1992         | Department of Zoology<br>Hutatma Rajguru Mahavidyalaya,<br>RajgurunagarPune, 410 505. |
| 2       | Assistant Fisheries<br>Development<br>Officer | June 1992 to February<br>2005 | Department of Fisheries,<br>Government of Maharashtra,<br>Mumbai 400 002.             |
| 3       | Assistant Professor                           | March 2005 to April<br>2018   | Department of Zoology<br>Shivaji University,<br>Kolhapur 416 004.                     |
| 4       | Associate Professor                           | May 2018 to August 2021       | Department of Zoology<br>Shivaji University,<br>Kolhapur 416 004                      |
| 5       | Professor                                     | September 2021                | Department of Zoology<br>Shivaji University,<br>Kolhapur 416 004                      |

**APPENDIX – VI**  
**GUEST LECTURES**

| <b>Sr. No.</b> | <b>Date</b> | <b>Name of collage / institute</b>   | <b>Topic</b>  |
|----------------|-------------|--|---|
| 1              | 03/09/2005  | Yashavantrao Chavan College of Science, Karad (M.S)                              | Aquaculture: Management and Economic                          |
| 2              | 04/09/2005  | Balasaheb Desai College, Patan (M.S)   | Fishery Science   |
| 3              | 24/11/2005  | Yashwant Krishi Vikas Sanstha, Karad (M.S)                                       | Freshwater prawn Culture                                      |
| 4              | 12/02/2008  | The Solapur Dist Central Coop Bank, Ltd, Solapur                                 | Integrated Fish Farming                                       |
| 5              | 22/02/2011  | Yashavantrao Chavan Institute of Science, Satara                                 | “Aquaculture” under Lead College Activity                     |
| 6              | 11/09/2012  | Department of Agriculture, Govt of Maharashtra                                   | Fish Farm Management  |
| 7              | 09/10/2012  | Agriculture Technical Management Agency, Kolhapur                                | Technology in fish farming                                    |
| 8              | 28/08/2014  | Regional Agriculture Extension Management Training Institute (RAMETI) , Kolhapur | Management of Freshwater Integrated Fisheries                 |
| 9              | 05/11/2015  | Regional Agriculture Extension Management Training Institute (RAMETI) , Kolhapur | Construction of freshwater fish farm                          |
| 10             | 07/11/2105  | Regional Agriculture Extension Management Training Institute (RAMETI) , Kolhapur | 1 Fish Seed Production and its Management<br>2 Fish Pathology |
| 11             | 27/11/2106  | Regional Agriculture Extension Management Training Institute (RAMETI) , Kolhapur | 1 Fish Seed Production and its Management<br>2 Fish Pathology |
| 12             | 17/10/2107  | Regional Agriculture Extension Management Training Institute (RAMETI) , Kolhapur | 1 Fish Seed Production and its Management<br>2 Fish Pathology |
| 13             | 23/08/2108  | Regional Agriculture Extension Management Training Institute (RAMETI) , Kolhapur | 1 Fish Seed Production and its Management<br>2 Fish Pathology |

## APPENDIX VII

### STATUS OF PROJECT PROPOSALS

| Sr.No. | Title   | Amount (in Lakh) | Funding Agency                     | Remarks                                    |
|--------|---|------------------|------------------------------------|--|
| 1      | Biodiversity of fishes of Satara Tahasil (April 2005 March2006 )  | 0.40             | UGC                                | <b>Completed</b><br>Co investigator        |
| 2      | Efficacy of formulated fish feed on growth and disease resistance. (April 08to March 11)  | 8.39             | UGC                                | <b>Completed</b><br>Principal Investigator |
| 3      | Comparative study of metal toxicity and molecular mechanism of immune defense with circulatory, excretory and neurophysiology in Mollusca (April 2009 to March 2012 ) | 5.76             | UGC                                | <b>Completed</b><br>Co-Investigator        |
| 4      | “Studies of soyabean formulated feed on growth of freshwater fish <i>Ctenopharengedon idella</i> ”  | 15.20            | CSIR                               | <b>Submitted</b><br>Principal Investigator |
| 5      | Dissemination of fish feed formulation technology to fishermen community and cooperative societies  | 45.00            | RGST                               | <b>Submitted</b><br>Principal Investigator |
| 6      | Hydrobiological studies of Radhanagari reservoir from Kolhapur district   | 16.26            | UGC                                | <b>Submitted</b><br>Principal Investigator |
| 7      | Effect Of Chlorantraniliprole on Fingerlings Of Freshwater Fish <i>Cirrhinus mrigala</i>  | 01.75            | RSS (Shivaji University, Kolhapur) | <b>Completed</b><br>Principal Investigator |
| 8      | Impact of Insecticide Emamectine Benzoate on Fingertings of Freshwater Fish <i>Labeo rohita</i>   | 02.85            | RSS (Shivaji University, Kolhapur) | <b>Submitted</b><br>Principal Investigator |

## APPENDIX VIII

### Research Guidance

| Sr No | Name of Student                    | Registered for M Phil/PhD | Title of research   | Remark                    |
|-------|------------------------------------|---------------------------|---|---------------------------|
| 1     | Miss Nadaf SB                      | PhD                       | Nutritional impact of formulated feed on growth of freshwater fishes  | Awarded<br>(14/11/2013)   |
| 2     | Smt.Bhosale SV                     | PhD                       | Effect of formulated fish feed from soyabean on <i>Ctenopharengedon idella</i>                              | Awarded<br>(18/04/2015)   |
| 3     | Miss Nalawade VB                   | PhD                       | Effect of formulated feed from slaughter house waste on growth performance of <i>Labeo rohita</i>           | Awarded<br>(02/11/2015)   |
| 4     | Miss Kulkarni JJ                   | PhD                       | Toxicological studies of Diazinon on freshwater fish <i>Labeo rohita</i>                                    | Awarded<br>(22/02/2018)   |
| 5     | Miss Teharin Desai                 | PhD                       | Toxicological studies of Methanol on freshwater fish <i>Cirrhinus mrigala</i>                               | Awarded<br>(14/10/2019)   |
| 6     | Miss Rupali Khandekar              | PhD                       | Effect of Malachite green and basic blue 3 on freshwater bivalve <i>Lamellidens marginalis</i> (Lamark)     | Awarded<br>(Transferred)  |
| 7     | Miss Pooja Pawar                   | PhD                       | Effect of Chlorantraniliprole on freshwater fish <i>Cirrhinus mrigala</i>                                   | Awarded<br>(31/12/2021)   |
| 8     | Mr Faisal Falih Faisal (From Iraq) | PhD                       | Toxicological Studies of Pirimicarb on Freshwater Fish <i>Cirrhinus mrigala</i>                             | Awarded<br>(30/01/2024)   |
| 9     | Mr Nagesh Baliram Birajdar         | PhD                       | Effect of Paraquat Dichloride on Fingerlings of Freshwater Fish <i>Cirrhinus mrigala</i>                    | Awarded<br>(24/06/2024)   |
| 10    | Miss Rutuja Jagannath Lad          | PhD                       | Studies on the Impact of Insectide Emamectin Benzoate on Fingerlings of Freshwater Fish <i>Labeo rohita</i> | Submitted<br>(01/07/2018) |



## **APPENDIX IX**

### **Membership of Academic Bodies**

1. Life Member of Indian Association of Aquatic Bodies (IAAB), Hyderabad, AP
2. Life Member of National Environmental Science Academy (NESA), New Delhi
3. Life Member of Society of Sciences (SoS), Dumka, Jharkhad
4. Life Member of International Society for Ecological Communications (ISEC), Dumka, Jharkhand
5. Life Member of Bionano Frontier, Mumbai, MS
6. Life Member of The Indian Science Congress Association, Kolkata, WB
7. Member of Current Science, Bangalore, Karnataka
8. Member of Junior Current Science, Dumka, Jharkhand
9. Member of Ekologia, Dumka, Jharkhand
10. Life member of Silk Society of India, Nagpur MS
11. Life member of Society for Science and Environment, Jalgaon
12. Member of Board of Studies in Zoology, SGM College, Karad
13. Member of Board of Studies in Zoology, Fergusson College, Pune
14. Member of Board of Studies in Zoology, SRTM University, Nanded

## **APPENDIX X**

### **Awards**

II<sup>nd</sup> Rank in the AVISHKAR 2013-14 in Agriculture and Animal Husbandry Category

## **APPENDIX XI**

### **Books Authored**

- 1 Introductions to Home Aquaria (ISBN: 978-81-962394-0-4)
- 3 Insights into Biosystematics (ISBN: 978-81-962394-1-1)
- 4 The Art of Fishing (ISBN:978-81-962394-97)
- 5 Astuteness into Physiology (ISBN:978-81-962394-97)
- 6 Understanding Fishes as Food Commodities (ISBN:978-81-977657-2-8)
- 7 Myth & Science of Fish (an introspection) (ISBN:978-81-977657-1-1)
- 8 Mesmerizing world of fishes (ISBN:978-81-977657-8-0)
- 9 Understanding the Queen of Gems (ISBN:978-81-977657-6-6)
- 10 Indigenous Fisher Communities (ISBN: 978-81-982724-4-7)
- 11 Journey of Fishing Crafts (ISBN: 978-81-982724-2-3)
- 12 Journey of Fishing Nets (ISBN: 978-81-982724-3-0)

### **Chapters Contributed**

- 1 FISHERIES-Unraveling Heritage to Achieve Modern Goals: Paraquat Dichloride Induced Acute & Chronic Hematological Alterations in Indian Major Carp *Cirrhinus mrigala* (ISBN: 978-93-56512-00-9)
- 2 Education & Awareness Programs through Partnership for Promoting Wildlife Conservation in Conserving Wildlife Together (ISBN: 978-81-962394-4-2)
- 3 The Unsung Women's Role in the Fisheries Sector in Women Leading the Way (ISBN: 978-81-967529-0-3)
- 4 "Guardians of Life: Preserving Biodiversity for a Sustainable Future" Plastic Explosion (ISBN:978-81-967529-1-0)
- 5 "Impacts of Climate Changes on Fisheries & Aquaculture: Implications on Food Security" Habitats & Biodiversity Conservation (ISBN:978-81-967529-1-0)
- 6 "Human-Wildlife conflict in Karveer taluka of Kolhapur district, Maharashtra Habitats & Biodiversity Conservation (ISBN:978-81-967529-1-0)

## **APPENDIX XII**

### **Member Secretary**

For subject Biology, Maharashtra State Bureau of Textbook Production and Curriculum Research, Pune (Erstwhile **Balbharati**).