

1. **Full Name:** Dr. Popat Bhagawan Lokhande
2. **Designation:** Professor & Head (Chemistry)
(Date of joining: 23/07/1996)
University Sports Director
3. **Official Address:** Dr. Babasaheb Ambedkar
Technological University,
Lonere-402103 Dist-Raigad,
Maharashtra
Phone: 9423285024
Email: pblokhande@dbatu.ac.in
4. **Residential Address:** Arya Greens Society, D 204
Lonere-402103
Phone: 02140275009
5. **Educational Qualification:** M.Sc. Ph.D.
6. **Field of Specialization and Research:** Industrial Chemistry,
Environmental Chemistry,
Phytochemistry, Material Science
7. **Name of Research Topic:** Study of the physico-chemical
parameters of surface water in the
vicinity of industrial area.
8. **Experience (in number of years):**
Teaching: 25 Years
Research: 15 Years
9. **Winter/Summer Schools attended:** 05 (12 weeks)
10. **Publications:**
International/ National Journals: 24
International/ National Conferences: 14
11. **Number of Ph.D. Students:** 04
12. **Courses/Seminar/Conferences attended:**

1. UGC sponsored four weeks Refresher course in Chemistry held at Shivaji University, Kolhapur during 27-02-2001 to 21-03-2001.
2. Two weeks short term course on Pollution Control and Management held at Dr. Babasaheb Technological University, Lonere during 12-24, Dec. 1999.
3. Two weeks short term course on Biomedical signal and Image processing held at Dr. Babasaheb Ambedkar Technological University, Lonere during 10-21, March 2003.
4. UGC sponsored three weeks Refresher course in Environmental Science held at Academic Staff College of Goa University, Goa during 22 Nov. to 13th Dec.
5. UGC sponsored National seminar on the role of Material Science in Electronic Industry and Information Technology. 9-10 March 2007.
6. Program on Creativity and Innovation Techniques and Patenting in India and abroad under TEQIP at Dr. Babasaheb Ambedkar Technological University, Lonere. 20-21 April 2006.
7. One week Training Program on Gas Chromatography at Chemito Technologies Ltd. Nashik, sponsored by Dr. Babasaheb Ambedkar Technological University, Lonere, Raigad.
8. Attended International Conference on Materials, Manufacturing and Design Engineering (ICMMD 2016) held at Dr. Babasaheb Ambedkar Technological University, Lonere, Raigad, 20-21 Dec. 2016
9. Attended Interdisciplinary State Level Conference on Science For Sustainable Development (ISCSSD) held at Anandibai Pradhan Science College, Nagothane, Dist-Raigad, 19th Dec. 2016

13. Membership of Professional Bodies:

1. Life Member of Indian Society for Technical Education (ISTE) New Delhi.
2. Life Member of Indian Science Congress
3. Life Member of Indian Journal of Environmental Protection
4. Life Member of International Congress of Chemistry & Environment
5. Member: Journal of Chemistry and

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| | | Environment. |
| 6. | Member: | Journal of Environmental Research and Development. |
| 7. | Member: | NSS advisory Board |
| 8. | Member: | Planning and evaluation (Monitoring) Board |
| 9. | Member: | Tribal Development Program of TEQIP. |
| 10. | Member: | Research Committee |
| 11. | Member: | Board of Studies |
| 12. | Member: | Departmental Committee |

14. Professional Position held:

1. Worked as Incharge HOD of Department of Chemistry in absentia of HOD
2. Assistant Rector of Hostel having capacity of 350 students
3. Responsibility of Associate co-ordinator for first year degree
4. Worked as Examination Co-ordinator of semester examination of First year degree
5. Involved in the preparation of course curricula of chemistry
6. Involved in different committees for sports and annual social gathering
7. Time-Table Co-ordinator.
8. Actively involved and prepared proposal of Chemistry Department for UGC, AICTE, DST, TEQIP etc.
9. Chief Co-ordinator, ARC for First Year Degree Engg. Course.
10. Member of Selection committee for Adhoc lecturers in Chemistry.

15. Publications

A. Research Publications in National and International Journals

Sr. No.	Publications
01	Study of water quality parameters of River water in Konkan Region

	<p>A. D. Gawas, P. B. Lokhande and H. A. Mujawar</p> <p>Indian Journal of Environmental Protection</p> <p>Vol. No. 25(03) 212-217 (2005)</p>
02	<p>Study of physicochemical parameters of surface water in the Mahad Industrial Area.</p> <p>A. D. Gawas, P. B. Lokhande and H. A. Mujawar</p> <p>Journal of Pollution Research</p> <p>Vol. No. 25 (01) 109-114 (2006)</p>
03	<p>Study of Physico-chemical Parameters of Surface Water from Kundalika River Near Roha MIDC, Raigad</p> <p>N. J. Patil, D. B. Patil, P. B. Lokhande and H. A. Mujawar</p> <p>Indian Journal of Environmental Protection 26 (2) 169-174 (2006)</p>
04	<p>Characterization of waste water by correlation and regression method</p> <p>A. D. Gawas, P. B. Lokhande and H. A. Mujawar</p> <p>Indian Journal of Environmental Protection 27 (12) 1117-1120 (2007)</p>
05	<p>Multivariate statistical analysis of ground water in the vicinity of Mahad industrial area of Konkan region, India</p> <p>P. B. Lokhande, V. V. Patil and H. A. Mujawar</p> <p>International Journal of Applied Environmental Sciences, Volume 3 Number 2 pp. 149-163 (2008)</p>
06	<p>Multivariate statistical study of Seasonal variation of BTEX in the surface water of Savitri River</p> <p>P. B. Lokhande, V. V. Patil, Dr. H. A. Mujawar</p> <p>Environmental Monitoring and Assessment (Springer) 157 (1-4), 51-61 (2009)</p>
07	<p>Study of metal contamination in Savitri River by Multivariate Statistical Analysis</p> <p>P. B. Lokhande, V. V. Patil, H. A. Mujawar</p> <p>Indian Journal of Environmental Protection</p> <p>Vol. 29 No-02 pp. 159-166 (2009)</p>
08	<p>Assessment of seasonal variation in surface water quality of Savitri River, India by using multivariate statistical techniques</p> <p>P. B. Lokhande and H. A. Mujawar</p>

	Asian Journal of water, Environmental and pollution 8 (2), 105-112 (2011)
9	Evaluation of Ground Water Quality of MIDC Area, Roha through Water Quality Index Assessment S. M. Tandale, H. A. Mujawar, P. B. Lokhande. International Journal of Scientific and Engineering Research, Vol 5(4), April 2014
10	Graphic interpretation and assessment of water quality in savitri river basin. Dr. P. B. Lokhande, Dr. H. A. Mujawar International journal of scientific and engineering research Vol. 7(3), March 2016
11	Photodegradation of Rhodamine 6G dye by Cd, Sr Doped ZnO, Synthesized by Mechanochemical Method Sneha S. Salvi, Dr. P. B. Lokhande, Dr. H. A. Mujawar Advances in Intelligent Systems Research, Atalntis Press , Vol. 137, Pp. 48-53 (2016)
12	Study of Zr and Sn doping on photoluminescence Property of Cadmium Sulphide. Madhuri M. Bhagat, P. B. Lokhande, H.A. Mujawar Advances in Intelligent Systems Research, Atalntis Press, Vol. 137, Pp. 54-58. (2016)
13	Comparative Study of Efficiency of Cd and Sr doped ZnO Photocatalyst Synthesized by Mechanochemical Method and Coprecipitation Method Sneha S. Salvi, Dr. P. B. Lokhande, Dr. H. A. Mujawar, Scientific Journal International, ISSN 1936-6264 (P); 1945-3019(O), (2017)
14	Photocatalytic degradation of carcinogenic rhodamine 6g dye by strontium and tin doped cadmium sulphide nanoparticles, Madhuri M. Bhagat, Dr. P. B. Lokhande, Dr. H. A. Mujawar, International Journal of Research Publications in Engineering and Technology, [IJRPET] ISSN: 2454-7875 VOLUME 3, ISSUE 6, 129-136, (2017)
15	Essential Oil Extraction, Charactarization and Antimicrobial Study of Cythocline Purpurea DC from Konkan Region

	Mr.Abhijit V. Dinde, Dr. P. B. Lokhande, Dr. H. A. Mujawar Journal of Pharmacy Research, 11(5), 424-429, ISSN: 0974-6943, 2017
16	Effect of Cd, Ni Codoping on Photocatalytic activity of Zinc Oxide, Synthesized by Citrate Gel Method Sneha S. Salvi, Dr. P. B. Lokhande, Dr. H. A. Mujawar International Journal of Research in Advent Technology, E-ISSN: 2321-9637 Vol. 5, No. 11, (2017)
17	Essential oil extraction, characterization and antimicrobial study of Blumea Lacera D.C. from Konkan Region Mr.Abhijit V. Dinde, Dr. P. B. Lokhande, Dr. H. A. Mujawar Journal of Pharmacy Research Vol. 12 (1), ISSN: 0974-6943, (2018)
18	Effect of Tin and Strontium Doping on the Photocatalytic Activity of Zinc Sulphide Nanoparticles for the Photocatalytic Degradation of Resorcinol under Solar and Ultra-Violet Light, Bhagat M. M., Lokhande P., Mujawar H.A, Journal of Nanoscience Curr Res, Vol 3(2): 2 ,ISSN: 2572-0813, (2018)
19	“Essential Oil Extraction, Characterization and Antimicrobial Study of Blumea Oxyodonta D. C. from Konkan Region” Mr.Abhijit V. Dinde, Dr. P. B. Lokhande, Dr. H. A. Mujawar, International Journal of Recent Scientific Research Vol.09 (3) pp.24784-24789, ISSN:0976-3031, (2018)
20	Effect of La and Sn doping on photocatalytic activity of Cadmium Sulphide Photocatalyst. Madhuri M Bhagat, Dr. P. B. Lokhande, Dr. H. A. Mujawar International Journal of Management, Technology and Engineering, Vol. 8, issue IX , pp 777-783, (2018)
21	“Essential Oil Extraction, Characterization and Antimicrobial Study of Blumea laciniata D.C. from Konkan Region” Mr.Abhijit V. Dinde, Dr. P. B. Lokhande, Dr. H. A. Mujawar

	J.Biol.chem.chron., 4(2),70-76, ISSN: 2454-7476, (2018)
22	<p>“Antimicrobial activity of Chemically Synthesized Sn and Sr Doped Cadmium and Zinc Sulphides Semiconductor Nanoparticles”</p> <p>Madhuri M. Bhagat, P. B. Lokhande, H.A. Mujawar, Madridge Journal of Nanotechnology and Nanoscience, Vol. 4, Issue.1, 135-138 , 2019</p> <p>ISSN:2638-2075. (2019)</p>
23	<p>Degradation of recalcitrant phenol pollutant and antibacterial study by Ni, Sr doped ZnO,</p> <p>Sneha Salvi, P. B. Lokhande, H. A. Mujawar,</p> <p>Inorganic and Nanomaterial Chemistry (Taylor and Francis), ISSN (Print): 2470-1556, 2470-1564 (Online), (2019)</p>
24	<p>Structural, Optical and Photocatalytic Study of Ni, Sr doped ZnO on Degradation of Methyl Orange</p> <p>Ms. Sneha Salvi, P. B. Lokhande, H. A. Mujawar</p> <p>AJANTA, ISSN-2277-5730, Volume-08, Issue-01 (2019)</p>

B. Research Papers presented in Conferences

Sr. No.	Publications
1.	<p>Biological Nitrogen removal from waste water using sequential batch reactor</p> <p>N. D. Deshmukh, P. B. Lokhande, H. A. Mujawar</p> <p>National Conference on Environmental Technology held at Mumbai University during 9-10 Feb. 2006.</p>
2.	<p>Seasonal variation of the Volatile organic compounds (BTEX) in the Surface water of Savitri River</p> <p>P. B. Lokhande, V. V. Patil, H. A. Mujawar, INDO-ITALIAN International Conference on Green and Clean Environment. MIT College of Engineering, Kothrud, Pune. 20-21 March 2008.</p>

3.	<p>Graphic interpretation of surface water quality of Savitri river in Konkan region of India.</p> <p>P. B. Lokhande, V. V. Patil, H. A. Mujawar</p> <p>International Congress of Environmental Research, Govt. Geetanjali Girls P. G. College, Bhopal, 28-30th December 2007.</p>
4.	<p>Multivariate statistical analysis of sediments pollution in the Savitri river basin of Mahad Industrial area.</p> <p>P. B. Lokhande, H. A. Mujawar</p> <p>International Conference on Biodiversity, Environmental and Sustainability: Challenges for Future, Delhi University, 4-6 Sept. 2008.</p>
5.	<p>Photodegradation of Rhodamine 6G dye by Cd, Sr Doped ZnO, Synthesized by Mechanochemical Method</p> <p>Sneha S. Salvi, Dr. P. B. Lokhande, Dr. H. A. Mujawar</p> <p>1st International Conference on Materials, Manufacturing and Design Engineering (iCMMD 2016), held at DBATU, Lonere during 20-21 Dec. 2016</p>
6.	<p>A Review: Recent Trends in Synthesis of Photocatalyst</p> <p>Sneha S. Salvi, P. B. Lokhande, H. A. Mujawar</p> <p>New Horizons In Chemical and Environmental Science (NS-NHCES-2016) held at Karmaveer Bhaurao Patil College, Vashi, 30 Jan. 2016</p>
7.	<p>A Review: Advanced Photocatalysts and Its Application</p> <p>Madhuri M. Bhagat, P. B. Lokhande, H. A. Mujawar</p> <p>New Horizons In Chemical and Environmental Science (NS-NHCES-2016) held at Karmaveer Bhaurao Patil College, Vashi, 30 Jan. 2016</p>
8.	<p>Study of Zr and Sn doping on photoluminescence Property of Cadmium Sulphide.</p> <p>Madhuri M. Bhagat, P. B. Lokhande, H.A. Mujawar</p> <p>1st International Conference on Materials Manufacturing and Design Engineering held at</p>

	Dr. Babasaheb Ambedkar Technological University Lonere, Raidad, dated December 20-21, 2016
9.	Photocatalytic activity of Doped Cadmium sulphide. Madhuri M. Bhagat, P. B. Lokhande, A. V. Dinde National Seminar on Recent Developments in Chemical and Material Science , at Dapoli Urban Co-operative Bank Science College, Dapoli, on 5-6 Feb 2016
10.	Study of Photocatalytic Activity of Sr and Sn Doped Cadmium Sulphide Photocatalyst, M. M. Bhagat, P. B. Lokhande, H.A. Mujawar Conference on Science for Sustainable Development, ISBN 978-81-920431-3-5,page no. 153-155, At APK college Nagothane , dated 19 Dec 2016
11	A Review: Efficiency of essential oil extraction methods of genus Blumea and its therapeutic values A.V. Dinde, P. B. Lokhande, H.A. Mujawar Mainstreaming the Marginalized: Perspectives in humanities commerce and science Book held at LGMACSC, Mandangad on 28 th January 2017 VIII, 6 (21), ISBN 978-93-83871-46-9.
12	Sneha S. Salvi, Dr. P. B. Lokhande, Dr. H. A. Mujawar, “Structural, Optical and Photocatalytic study of Ni, Sr Doped ZnO on Degradation of Methyl Orange” presented in International conference on “New trends in commerce, Economics, Banking, Cooperation, Management, Computer science, IT and Environment held at Poona college, Pune 8 th and 9 th February 2019.
13	Mr. P. B. Nagore, Dr. P.B.Lokhande & Dr.H.A.Mujawar, “Potent Medicinal Application of essential oil of Hedychium coronarium Koenig species”. International Conference on Advancement in interdisciplinary research (ICAIR-2021) at Ambedkar University Agra. (2021)

14	Mr. P. B. Nagore, Dr. P.B.Lokhande & Dr.H.A.Mujawar, “ Investigation of antimicrobial potency of sesquiterpenoid dominant essential oil of Curcuma inodora ”.(ICASH-2021) at SVPM Institute of Technology, Dhule, Maharashtra

16. National and International Conferences Attended:

- International congress of Environmental Research at Govt. Geetanjali Girls college Bhopal M. P during 28-30 Dec. 2007.
- International conference on ‘Biodiversity, Environment and Sustainability: Challenges for Future’ held at University of Delhi during 4-6 Sept, 2008.
- Indo-Italian conference on ‘Green and Clean environment’ held at MIT college of Engineering, Pune during 20-21 March 2008.
- National Conference on ‘HERBESCON 2016’ at Ranchandra University, Chennai during 17th and 18th Feb 2016.
- International Conference on ‘Material, Manufacturing and Design Engineering 2016’ held at Dr. Babasaheb Ambedkar Technological University, Lonere during Dec. 20-21, 2016.
- International Conference on ‘Mainstreaming the Marginalised’ held at LGM art, commerce and science college, Mandangad, Ratnagiri on 28th Jan. 2017.

17. Significant contribution to Teaching Academic/Education Environment, Institution Corporate life:

- Member of committee constituted to maintain academic standard.
- Member of BOS and Academic Council.
- Member of ‘Staff Development Committee’ of TEQIP.
- Member of ANVENTION-2013 Committee.
- Overall Co-ordinator for first Year Engineering students.
- In-charge HOD in the absence of HOD.
- Office In-charge for First Year B. Tech Examination.

- Judge for National level Technical paper presentation ‘CHEM FRATERNITY
- Ph. D. Entrance Test paper assessment work.
- F. Y. B. Tech. class co-ordinator.
- Co-ordinator, Remedial Exam.
- ‘Research Proposal’ under TEQIP.
- RUSA proposal submitted.
- Submitted proposal to UGC for establishment of SC/ST cell.

18. Adequate and field outreach activities:

- worked as a member of Project Implementation Plan of TEQIP
- Worked as admission co-ordinator for 15% quota for Konkan region during year 2011
- Member of Selection Committee for Appointment of Teachers on Contract Basis for year 2010
- Member of Academic Council during ^{1st} October 2013 to 30th September 2016.
- Member of Selection Committee for Appointment of Teachers on Contract Basis for year 2011
- Worked as Co-Ordinator of Ph.D. written exam and Interview of year 2012
- Worked as Chief Co-Ordinator of ARC-4 during year 2010-11
- Worked as a Assistant Rector for the University Hostel for the year 2003-04
- Member of Culture Committee during Academic year 2004-05
- University Sports Co-Ordinator since Oct. 2017

19. Courses:

1. Advances in Material
2. State level Engineering chemistry workshop on ‘SOFT-CHEM’ at Sinhgad College of Engineering, Pune during 5th to 9th July 2011 (AICTE approved).
3. Advances in Chemical Engineering: Recent Trends (ACERT) at Dr. Babasaheb Ambedkar Technological University, Lonere during 26th to 30th March 2012 (UGC Sponsored).
4. Two week ISTE workshop on ‘Introduction to Research Methodology’ at RIT, Islampur, Sangli during 25th June to 4th July 2012.
5. ‘Comprehensive Training on essential oil’ at FFDC, Kannauj, UP during 20-11-

2012 to 5-12-2012.

5. Two weeks faculty development program on 'Mathematical Methods for Science and Engineering using soft computing tools at COE, Karad during 2 to 13 Dec. 2013 under TEQIP.
6. Short Term course on 'Nanotechnology: Opportunity and Challenges at NITTTR, Pune during 1st to 5th Dec. 2014.
8. Two week workshop on 'Environmental Studies' at RIT, Islampur, Sangli during 2 to 12 June 2015 conducted by IIT, Mumbai.

20. Course Material:

1. Part of Process for developing syllabus of,
 1. Engineering Chemistry-I and II of F. Y. B. Tech.
 2. Environmental Chemistry. F. Y. B. Tech.
 3. Engineering Chemistry. S. Y. B. Tech Chem/Petro
 4. Engineering Chemistry I, II Lab.
 5. Environmental Chemistry Lab.
 6. Engineering Chemistry Lab.
 7. Environmental Chemistry for M. Tech. Environmental Engineering
2. Preparation of Question Paper for
 1. Contract basis lecturer interview of chemistry subject.
 2. Ph. D. Students Entrance Test
3. Member of Board of Studies for Basic Sciences and Humanities.
4. Member of Research Committee for
 - a. Chemistry
 - b. Physics
 - c. Mathematics
5. Member of selection committee of Ph.D. Students in Chemistry, Physics, Mathematics.
6. Member of University Brochure Committee
7. Member of Academic Council

8. Research Guide in the subject of Chemistry

21. Participation in Continuing Education Program:

1. Two days faculty development program on Pedagogy held at Dr. Babasaheb Ambedkar Technological University, Lonere during 29-30 Dec. 2014.
2. Comprehensive training at Kannauj, U. P.
3. One day Capsule Training at Dr. Babasaheb Ambedkar Technological University, Lonere during 12th May 2009.
4. Pre-Ph. D. Course work completed with one seminar and M. Tech Paper.
5. One week workshop on 'Outcome Based Education' conducted at Dr. Babasaheb Ambedkar Technological University, Lonere during 23-28 June 2016.
6. 'Mission 10X Workshop' conducted at Dr. Babasaheb Ambedkar Technological University, Lonere during 7-11 March 2011.

22. Any Other Academic Contribution:

1. Worked as Judge of 'INSPIRE Award' Science Exhibition held at K.A.C.V.K. High School and S.A.S.K. A. B. high School, Panvel during 13-15 July 2011.
2. Worked as a Committee Member for the University level Program "Indradhanush" during 7-11 December 2013 at Dr. Babasaheb Ambedkar Technological University, Lonere Raigad.
3. Participated as a Recourse Person in One Day National Seminar on Seminar on 'Social & Political movement: Contemporary Issues' on 3rd March 2017.
4. Worked as member of purchase Committee.