



**Dr. Bhushan Prabhakar Langi**  
Asst. Professor, Department of Chemistry

**SATISH PRADHAN DNYANASADHANA  
COLLEGE, THANE Off Eastern Express Highway,  
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**Vidwan ID: 55752**

<b>Department</b>	:	Chemistry
<b>Name of the Faculty</b>	:	Dr. Bhushan Prabhakar Langi
<b>Designation</b>	:	Vice-Principal (Administration) and Assistant Professor
<b>Qualification/s</b>	:	M.Sc., Ph.D.
<b>Email ID</b>	:	<a href="mailto:bhushanl@dnyanasadhanacollege.org">bhushanl@dnyanasadhanacollege.org</a> , drbhushanlangi@gmail.com
<b>Years of Experience</b>	:	UG: 12 Years (Aided) and 7 Years (Unaided) PG: 09 Years Research: 09 Years
<b>Thrust Area (Subject Interest)</b>	:	Synthetic Organic Chemistry, Coordination Chemistry
<b>Details of Paper Presented</b>	:	National Level : 05 International Level: 12 1. "Novel Synthesis of Selenium Nanoparticles by Using Ionic Liquid" UGC Sponsored <i>National Seminar on Nanotechnology: Fundamentals and Applications</i> organized by Department of Chemistry, Changu Kana Thakur Arts, Commerce and Science College, Navi Mumbai, India, April 27-28, 2012. 2. "Novel Synthesis and Characterization of Selenium Nanoparticles", <i>TEQIR-II sponsored 1<sup>st</sup> International Conference on Recent Advances in Chemical Sciences and Technology</i> , organized by Department of Basic Science, University of Chemical Technology, North Maharashtra University, Jalgaon, September 21, 2013 3. "Synthesis of Heterocyclic Derivatives of

	<p>Dipyranquinoline”, UGC sponsored <i>One Day National Conference on Environmental Issues and Benefits with Special Reference to Polymer Industries</i> organized by Department of Chemistry, Dnyanasadhana College, Thane, January 24, 2015.</p> <ol style="list-style-type: none"> <li>4. “Anti-microbial study of Dipyranquinoline and its derivatives”, National conference on <i>Food for All in the Anthropocene Era</i> at 8<sup>th</sup> National Youth Science Congress organized by University of Mumbai, SRM University and MSSRF, February 16-18, 2017.</li> <li>5. Synthesis and Antibacterial Screening of Thiazoles, National Conference on Emerging Trends in Material Sciences (ETIMS) 2018 organized by Department of Chemistry V.G. Vaze College of Arts, Science and Commerce, Mulund, Mumbai, January 13, 2018</li> <li>6. Synthesis and Evaluation of Antimicrobial Activity of Derivatives of Hydroxy Coumarin, Advance Analytical Tools for Material Characterization (AATMC-2018) organized by Birla College of Arts, Science and Commerce, Kalyan, February 28, 2018</li> <li>7. A Convenient and Facile Synthesis of Pyrrolo-indazole Thiol Derivatives, 1st International Conference on Empirical and Theoretical Research, organized by International Board for Education, Research and Development at Jerusalem Israel, May 28, 2019 to June 02, 2019.</li> <li>8. A Study on Mental Health of International Students Who are Studying in Abroad during COVID-19, 2<sup>nd</sup> International Conference on Empirical and Theoretical Research organized by International Board for Education, Research and Development from June 4-6, 2020.</li> <li>9. Synthesis and Characterization of Mixed Ligand Lanthanum(III) Complexes, 3<sup>rd</sup> International Conference on Empirical and Theoretical Research (ICETR-2022) organized by International Board for Education, Research and Development (Online), January 28-29, 2022.</li> <li>10. Synthesis and Evaluation of Antimicrobial Activity of Novel Tetrazole Derivative, 7<sup>th</sup> International Conference on "Opportunities and Challenges in Agriculture, Environmental and Biosciences for Global Development (OCAEBGD-2022) organized by Don Bosco College of Agriculture, Sulcorna, Quepem, Goa, Affiliated Goa</li> </ol>
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	<p>University, Goa, College of Horticulture and Forestry, Central Agricultural University Pasighat-Arunachal Pradesh, School of Environment and Sustainable Development, Central University of Gujarat, Gandhinagar, India and Agro Environmental Development Society (AEDS) Majhra Ghat, Rampur, U.P, India from October 29-31, 2022.</p> <p>11. Biomonitoring of urban trees as a key indicator for mitigating environmental pollution, International Conference on Impact of Environment, Food and Nutrition on Human Health organized by International Society for Life Sciences, Jaipur from December 21-24, 2022.</p> <p>12. Synthesis of Novel Triazole Derivatives, Global Education Conference: FuturEd (4th International Summit on Multidisciplinary Research and Experiential Learning) organized by International Board for Education, Research and Development and Saint Louis University, Madrid, Spain at Saint Louis University, Madrid, Spain from June 19-22, 2024.</p>
<p><b>Details of Publication</b></p>	<p>: National Level : 09 International Level: 19</p> <ol style="list-style-type: none"> <li>1. Synthesis of pyranobenzopyran derivatives as a potent antibacterial agent, V.V. Mulwad, A.C. Chaskar, B.P. Langi, <i>J. Korean Chemical Society</i>, 2008, 52 (6) 663.</li> <li>2. Triphosgene: An Efficient Catalyst for Synthesis of Isothiocyanates, A.C. Chaskar, S. Yewale, R. Bhagat, B.P. Langi, <i>Synthetic Communication</i>, 2008, 38, 1972.</li> <li>3. Heteropoly Acids as a Useful Recyclable Heterogeneous Catalyst for the Facile and Highly Efficient Aza-Cope rearrangement of <i>N</i>-allylanilines. Atul Chaskar, Vikas Padalkar, Kiran Phatangare, Ketan Patil, Akalpita Bodkhe, Bhushan Langi. <i>Applied Catalysis A: General</i>, 2009, 359, 84.</li> <li>4. H<sub>3</sub>Mo<sub>12</sub>O<sub>40</sub>P Catalyzed one-pot synthesis of Amidoalkyl Naphthols. Preeti Gawand, Hrushikesh Deokar, Bhushan Langi, Arun Yadav, Atul Chaskar, <i>Synthetic Communication</i> 2009, 39, 4171.</li> <li>5. Bismuth Chloride–Sodium Nitrite: A Novel reagent for Chemoselective <i>N</i>-Nitrosation. Atul C. Chaskar, Bhushan P. Langi, Amol Devrukhkar, Rushikesh</li> </ol>

- Deokar, *Synthetic Communication*, 2009, 39,604.
6. Practical and Green Approach for *N*-Boc protection of Amines Catalyzed by Indion 190 resin, Atul Chaskar, Sampat Yewale, Bhushan Langi, Hrushikesh Deokar, *J. Korean Chemical Society*, 2009, 53 (4), 422.
  7. Indion 190 Resin: A Green and recyclable Catalyst for facile and efficient one-pot synthesis of 3,4-Dihydropyrimidin-2(1H)-one Atul Chaskar, Farhat Jaffer, Bhushan Langi, Sampat Yewale, Akalpita Bodkhe *J. Korean Chemical Society*, 2009, 53 (2), 224.
  8. Phosphomolybdic acid catalyzed highly efficient and simple one pot synthesis of Quinoxaline Atul Chaskar, Vikas Padalkar, Kiran Phatangare, Bhushan langi, Pallavi Naik. *J. Korean Chemical Society* 2009, 53 (6), 727.
  9. Miceller Mediated Phosphomolybdic Acid: Highly effective reusable Catalysts for Synthesis of Quinoline and Its Derivatives. Atul Chaskar, Vikas Padalkar, Kiran Phatangare, Bhushan Langi, and Chetan Shah. *Synthetic Communication*, 2010, 40, 2336.
  10. Ionic Liquid-induced synthesis of selenium nanoparticles, Bhushan Langi, Chetan Shah, Krishankant Singh, Atul Chaskar, Manmohan Kumar and Parma N. Bajaj, *Material Research Bult.*, 2010, 45, 668.
  11. Synthesis and biological activity of some spiro heterocycles, V. V. Mulwad, Yogesh Mhamunkar, Bhushan Langi, *Indian Journal of Heterocyclic Chemistry*, 2010, 19(4), 353.
  12. Synthesis and biological activity of heterocycles synthesized from diaza compounds V. V. Mulwad, Yogesh Mhamunkar, Bhushan Langi, *Indian Journal of Heterocyclic Chemistry*, 2010, 19(4), 349.
  13. Synthesis and biological activity of heterocycles synthesized from 6-amino coumarins V. V. Mulwad, Y. Mhamunkar, B. Langi, *Indian Journal of Heterocyclic Chemistry*, 2010, 20(1), 41.
  14. Heteropoly Acids as Heterogeneous and reusable Catalysis for  $\alpha$ - Thiocyanation of Ketones Atul Chaskar, Arun Yadav, Bhushan Langi, Anita Murgappan, Chetan Shah, *Synthetic Communication*, 2010, 40, 2850.

15. Synthesis of novel biological active heterocycles from [2-oxo-2H-benzopyran-6-yl] Imidazolidine, V. V. Mulwad, B.P.Langi, A. C. Chaskar, *Acta Poloniae Pharmaceutica – Drug Research*, 2011, 68 (1), 39.
16. Synthesis of Biological active Heterocycles from Coumarin-thiocyanate, V.V. Mulwad, B.P. Langi, A. C. Chaskar, *Acta Poloniae Pharmaceutica – Drug Research* 2011, 68(3), 441.
17. Synthesis and antimicrobial activities of [6'-methyl-4'-methoxy-2-oxo-2H [1] benzopyran]-2'', 4''-dihydro-[1'', 2'', 4'']-triazol-3''-one and 3''-phenylthiazolidine - 4''-one-phenoxyethyl Derivatives of Dipyranoquinoline, V.V. Mulwad, B.P. Langi, J. Chaskar, A. Chaskar *Pharmaceutical Chemistry Journal* 2011, 45(7), 41.
18. Synthesis, Characterization and Biological Studies on Some Mixed Ligand La (III) Complexes, Maharudra Kekare, Vikas Vaidya, Jagdish Thakur, Sunil Patil, Bhushan Langi, *International Journal of Science and Research (IJSR)*, 2014, 3(11), 178.
19. Synthesis and Characterization of Some Novel Bioactive Thiazolidinone Derivatives of 3-substituted Coumarin, S.K. Patil, B.P. Langi, H.P. Deokar, *Indo American Journal of Pharmaceutical Research* 2015 5(1), 578.
20. The study of Assessment of Drinking Water Quality for the Tribal Villagers, Roha-Tahsil, Dist-Raigad (Maharashtra), Dinesh Bhagat, Sunil Patil, Bhushan Langi, *IJISSET - International Journal of Innovative Science, Engineering & Technology*, 2015, 2 (10), 51
21. Green Audit in Academic Institutes, Sunil Patil, Bhushan Langi and Minakshi Gurav, *International Journal of Multidisciplinary Educational Research*, 2019, 8(6), 131.
22. A Study on Mental Health of International Students who are Studying in Abroad During COVID-19, Surekha Shetty, Bhushan Langi, 2020, *Shodh Sanchar Bulletin*, 10 (39), 22.
23. Synthesis, Physical and Spectral Investigations and Biological Studies of Mixed Ligand Lanthanum Complexes, SS Patil, BP Langi, MN Gurav, DK Patil *Annals of the Romanian Society for Cell Biology*, 25(4), 2021, 10559-10569.
24. Studies of Mixed Ligand Lanthanum Complexes:

	<p>Synthesis, Spectral Interpretations and Antibacterial Study, Sunil Patil, Bhushan Langi, Minakshi Gurav, Digambar Patil, <i>Journal of Pharmaceutical Research International</i>, 33 (37A), 2021, 161-174.</p> <p>25. Physicochemical, Thermal, Spectral and Biological Investigation of Mixed Ligand Lanthanum Complexes, <i>Indian Journal of Natural Sciences</i>, Vol.13, Issue 73, 2022, 45164-45173.</p> <p>26. Lignin as an Additive in Nitrile Rubber Compound and Its Effect on Various Properties for Aeronautical Applications When Nitrile Rubber is Preferred, <i>Journal of Aeronautical Materials</i>, Vol. 43, Issue-02, 2023, 590-600.</p> <p>27. Evaluation of Aeromycoflora of Satish Pradhan Dnyanasadhana College Library, Thane, Maharashtra, India, <i>The Journal of Plant Science Research</i>, 39(2), 2023, 167-171.</p> <p>28. Characterization and use of Lignin as Bio Accelerator for Replacement of Synthetic Accelerator in Nitrile Rubber, <i>Journal of Aeronautical Materials</i>, Vol. 44, Issue-01, 2024, 13-30.</p>
<p><b>Details of Seminar/Workshop/Conferences/Symposia attained</b></p>	<p>: State Level : 16 National Level: 04</p> <ol style="list-style-type: none"> <li>1. Seminar on Accident in Chemical Laboratories and Industries-Causes and Guidelines for their Prevention, held at C.K. Thakur A.C.S. College, New Panvel on 26-27, June 2004.</li> <li>2. Three Days Workshop on Disaster Management held at C.K. Thakur A.C.S. College, New Panvel on 23-25, July 2005.</li> <li>3. Seminar on Specialized Aspects of Organic Chemistry held at C.K. Thakur A.C.S. College, New Panvel on 18-19, January 2008.</li> <li>4. State level Seminar on Recent Advances in Chemistry held at C.K. Thakur A.C.S. College, New Panvel on 9-10, January 2009.</li> <li>5. National Seminar on Re-accreditation- A Process towards Quality Enhancement Methods and Procedures held at C.K. Thakur A.C.S. College, New Panvel on 25-26, April 2009.</li> <li>6. National Seminar on Environmental Pollution and Monitoring held at C.K. Thakur A.C.S. College, New Panvel on 17-18, September 2010.</li> </ol>

7. UGC sponsored One Day National Conference on Environmental Issues and Benefits with Special Reference to Polymer Industries organized by Department of Chemistry, Dnyanasadhana College, Thane, January 24, 2015
8. National Seminar on "Biotechnology and Bioinformatics" organized by C.K Thakur A.C.S. College, New Panvel on 26-27, November 2004.
9. Workshop on Revised Syllabus of Organic Chemistry for F.Y.B.Sc. held at D.G. Ruparel College, Mumbai on 19, July 2008.
10. Workshop on Revised Syllabus of Physical Chemistry for F.Y.B.Sc. held at Kirti M. Doongursee College, Mumbai on 26, July 2008.
11. Workshop on Revised Syllabus of Organic Chemistry Paper III for S.Y.B.Sc. held at Mithibai College, Mumbai on 27, July 2009.
12. State level Seminar on New Trends in Chemistry held at Mahatma Phule A.S.C. College, Panvel on 9-10, February 2010.
13. University Level Workshop on S.Y.B.Sc. (Chemistry) Credit Based Semester and Grading System held at B.N. Bandodkar College of Science, Thane on 21, June 2012.
14. University Level Workshop on 'Avishkar' Research Convention 2012-2013 held at and C.K Thakur A.C.S. College, New Panvel on 6<sup>th</sup> September, 2012.
15. University Level Workshop on Credit Based Semester-Wise Revised Syllabus for T.Y.B.Sc. in the subject of Chemistry held at N.G. Acharya & D.K. Marathe College, Chembur, Mumbai on 02, March 2013.
16. State level work shop on Real-World Curriculum for Green Chemistry organized by National College, Bandra, Mumbai and Green Chemistree Foundation at National College, Bandra, Mumbai on 06, December 2015.
17. University Level Workshop on Revised Syllabus for F.Y.B.Sc. in the subject of Chemistry and Choice Based Credit System held at Mehta College, Airoli on 29, July 2016.
18. University Level Workshop on Workshop on Online Assessment Method at New Horizon Engineering College, Thane on 27, April, 2017.
19. University Level Workshop on Revised Syllabus for S.Y.B.Sc. in the subject of Chemistry and Choice

		Based Credit System held at Birla College, Kalyan on 29, July 2016. 20. University Level Workshop on Revised Syllabus for T.Y.B.Sc. in the subject of Chemistry and Choice Based Credit System held at Menon College, Mulund on 30, July 2018.
<b>Details of Book Authored</b>	:	1. Synthesis of Novel Heterocycles: Coumarinyl Derivatives, I.I.P. Iterative International Publishers, February 2024, 978-93-6252-028-9 2. Basic Statistical Tools in Chemistry, for Skill Enhancement Course, FYBSc, Semester I, Himalaya Publishing House, First Edition 2024
<b>No. of Research Scholar Registered</b>	:	M.Sc. (By Research): 01 Ph.D.: 01
<b>Details of Projects</b>	:	Minor Research Project: 01 (University Sponsored)
<b>Experience on the various Committees at the University of Mumbai</b>	:	<ul style="list-style-type: none"> <li>● Member, Board of Studies in the Subject of Chemistry from 2023-24 to till date</li> <li>● Member, Board of Students' Development University of Mumbai</li> <li>● Convenor, Aavishkar Research Convention, University of Mumbai from 2023-24 to till date</li> <li>● Member, Organizing Committee, for 'Avishkar Research Convention' at University of Mumbai for the academic year 2011-2012 and 2012-2013.</li> <li>● Coordinator for qualifying rounds (06 categories) of the 'Avishkar' at District level Sindhudurg and Ratnagiri on 10<sup>th</sup> and 11<sup>th</sup> December, 2012.</li> <li>● Team Manager for State level Research Convention 'Avishkar' held at Dr. Babasaheb Sawant Kokan Krishi Vidyapeeth, Dapoli between 7<sup>th</sup> to 9<sup>th</sup> January, 2013.</li> <li>● Member, Technical Support staff for 8th Indian Youth Science Congress from February 16-18, 2017, held at University of Mumbai.</li> <li>● District Coordinator (Zone III- Thane District) for 12th Inter-collegiate / Institute / Department Avishkar Research Convention 2017-18 organized by University of Mumbai.</li> </ul>



	<ul style="list-style-type: none"> <li>● Team Manager, University Contingent, University of Mumbai for Maharashtra State Inter-University Avishkar Research Convention 2017-18.</li> <li>● Team Manager, University Contingent, University of Mumbai for Anveshan: National Student Research Convention 2017-18.</li> <li>● Member, Organizing Committee for 50th Youth Festival University of Mumbai.</li> <li>● District Coordinator (Zone III- Thane District) for 13th Inter-collegiate/Institute/Department Avishkar Research Convention 2018-19 organized by University of Mumbai.</li> <li>● Judge for 13th Inter-Collegiate/Institute/Department Avishkar Research Convention 2018-19 on December 16, 2018 at Anadibai Raorane Arts, Commerce and Science College, Vaibhavwadi, Sidhudurg</li> <li>● Team Manager, University Contingent in 13th Maharashtra State Inter-University Avishkar Research Convention 2018-19.</li> <li>● Member, Organizing Committee, 51th Youth Festival at University of Mumbai.</li> <li>● District Coordinator (Zone III- Thane District including Navi Mumbai) for 14th Inter-collegiate/Institute/Department Avishkar Research Convention 2019-20 organized by University of Mumbai.</li> <li>● Judge for 14th Inter-Collegiate Avishkar Research Convention:2019-20 (Zonal Round).</li> <li>● Team Manager for 13th South Asian Universities Youth Festival (SAUFEST) organized by Association of Indian Universities, New Delhi at Kurukshetra University, Kurukshetra, Haryana from 24/02/2020 to 28/02/2020.</li> <li>● Member, Organizing Committee constituted for 14th Maharashtra State Inter-University Research Convention:2019-20 from 28/01/2020 to 31/01/2020 at University of Mumbai, Vidyanagari, Kalina, Santacruz, Mumbai.</li> <li>● Member, Organizing Committee Constituted for West Zone Inter-University Student Research</li> </ul>
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	<p>Convention: Anveshan 2019-20 from 17/02/2020 to 21/02/2020 at University of Mumbai, Vidyanagari, Kalina, Santacruz, Mumbai.</p> <ul style="list-style-type: none"> <li>● Member, Organizing Committee for 52nd Inter-collegiate / Institute / Department Youth Festival 2019-20.</li> <li>● District Coordinator (Zone III- Thane District including Navi Mumbai) for 15th Inter-collegiate/Institute/Department Avishkar Research Convention 2020-21(Online) organized by University of Mumbai.</li> <li>● Subject Expert nominated by Hon'ble Vice-Chancellor University of Mumbai for selection of Assistant Professor in the Subject of Chemistry on September 12, 2020 at M.B. More Foundation, Arts, Commerce and Science Women College, Dhatav, Roha, Raigad.</li> <li>● Resource Person for Workshop on Avishkar Research Convention 2017-18 organized by University of Mumbai at Pragati College, Dombivali on 14/11/2017.</li> <li>● Expert for Grooming Session for students participating in State Inter-University Avishkar Research Convention organized by Department of Students' Development, University of Mumbai on 03/01/2018, 04/01/2018 and 30/01/2018.</li> <li>● Expert for Grooming Session for students participating in State Anveshan: National Student Research Convention 2017-18 organized by Department of Students' Development, University of Mumbai on 11/03/2018.</li> <li>● Resource Person for Workshop on Avishkar Research Convention 2018-19 organized by University of Mumbai at G.M. Momin College, Bhiwandi, Thane on 05/09/2018.</li> <li>● Resource Person for Workshop on Avishkar Research Convention 2018-19 organized by University of Mumbai at St. Gonsalo Garcia College, Vasai, Palghar on 06/09/2018.</li> <li>● Resource Person Workshop on NAAC Accreditation Process- Criterion 1 and Online Uploading of Documents of NAAC Process organized by V.K.</li> </ul>
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		<p>Menon College, Bhandup, Mumbai on 06/07/2019.</p> <ul style="list-style-type: none"> <li>● Resource Person for Workshop on Avishkar Research Convention 2019-20 organized by University of Mumbai at Doshi Vakil Arts, Science and Commerce College, Goregaon, Raigad on 22/07/2019.</li> <li>● Resource Person for Workshop on Revised Framework and Submission of SSR at P.D. Karkhanis College of Arts, and Commerce, Ambernath on 15/03/2021.</li> <li>● Subject Expert for interview of an Assistant Professor on Clock Hour Basis at Sonopant Dandekar Arts, V.S. Apte Commerce and M.H. Mehta Science College, Palghar on 23/10/2021.</li> </ul>
<b>Experience on the various Committees at the College</b>	:	<ul style="list-style-type: none"> <li>● I/c Principal at Satish Pradhan Dnyanasadhana College, Thane from January 2022 to July 2022</li> <li>● Vice-Principal (Administration) from July 2022 to till date</li> <li>● IQAC Coordinator</li> <li>● Member, College Development Committee</li> </ul>
<b>Experience on the various Committees at Other University / Institute</b>	:	<ul style="list-style-type: none"> <li>● Member, College Development Committee (Alumni Representative), CK Thakur Arts, Commerce and Science College, New Panvel (Autonomous)</li> <li>● Secretary, Alumni Association, CK Thakur Arts, Commerce and Science College, New Panvel (Autonomous)</li> </ul>
<b>Awards and Recognitions</b>	:	<ul style="list-style-type: none"> <li>● Recipient of Prof. R. N. Usgaonkar Memorial Scholarship in the subject of Organic Chemistry for the academic year 2005-06 by The Institute of Science, Mumbai, 2006</li> <li>● Recipient of Prof. H.V. Hirave Memorial Prize for Best Student in Organic Chemistry for the academic year 2005-06 by The Institute of Science, Mumbai, 2006</li> <li>● Recipient of Prof. Nadkarni Memorial Prize for Best Student in Organic Chemistry in the academic year 2008-09 by The Institute of Science, Mumbai, 2009</li> <li>● Best Presentation Award at TEQIR-II sponsored 1<sup>st</sup></li> </ul>

	<p>International Conference on Recent Advances in Chemical Sciences and Technology, organized by Department of Basic Science, University of Chemical Technology, North Maharashtra University, Jalgaon.</p> <ul style="list-style-type: none"><li>● Best Presentation Award at 1<sup>st</sup> International Conference on Empirical and Theoretical Research, organized by Internatinal Board of Education, Research and Development</li><li>● First Prize Award at 7th International Conference on "Opportunities and Challenges in Agriculture, Environmental and Biosciences for Global Development (OCAEBGD-2022) organized by Don Bosco College of Agriculture, Sulcorna, Quepem, Goa, Affiliated Goa University, Goa, College of Horticulture and Forestry, Central Agricultural University Pasighat-Arunachal Pradesh, School of Environment and Sustainable Development, Central University of Gujarat, Gandhinagar, India and Agro Environmental Development Society (AEDS) Majhra Ghat, Rampur, U.P, India.</li></ul>
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*Dr. Bhushan Langi*