

## Short Biodata/ CV

<b>1</b>	<b>Name</b>	<b>Dr. K. K. Tiwari</b>
<b>2</b>	<b>Address for Communication</b>	Sophisticated Instrumentation Centre for Applied Research & Testing (SICART), Vallabh Vidyanagar- 388120, Anand, Gujarat  Phone Number +91 2692-234966 (O) +91 9429071141 (M) Email: kkt@sicart.res.in drkktiware14@rediffmail.com
<b>3</b>	<b>Academic Qualification</b>	M. Sc., NET, Ph.D. (Ecotoxicology)
<b>4</b>	<b>Experience in Research</b>	<b>Area of Research:</b> 1. Health Risk Assessment of Pollutant Elements 2. Ecotoxicology and Bioremediation of Pollutant Elements 3. Environmental Pollution and Ecosystem Management 4. Development of Tool for Water and Soil Pollution Control 5. Environmental Sustainably Study 6. Monitoring of water quality and hydrological studies
<b>5</b>	<b>Consultancy Activities</b>	<b>Consultancy:</b> 1. Environmental Auditing, Monitoring and Impact Assessment 2. Environmental Management System Certification 3. Adequacy Report Study  Consultancy Projects completed: Approx. 150 Nos.
<b>6</b>	<b>Major Achievements</b>	1. Young Scientist by DST (Govt. of India), New Delhi 2. Senior Research Fellowship by CSIR, New Delhi 3. Reported two multi metal hyper accumulator plant species 4. Developed phytoremediation system for heavy metals contamination
<b>7</b>	<b>Other Details</b>	Chapter in Proceeding: 06 Published Book: 02 Popular Science Article: 04 Paper Presented/ Participated in International/ National Seminar/ Conference: 40 Award/ Prize: 05 Short term course/ training program attended: 23 Google Scholar Citation: Above 1250

8	<b>Life Member/ Member of Scientific Societies</b>	<ol style="list-style-type: none"> <li>1. Indian Society for Plant Physiology</li> <li>2. International Society for Environmental Botanist</li> <li>3. Indian Association of Hydrologist</li> <li>4. Indian Science Congress Association</li> <li>5. Indian Association of Soil and Water Conservationist</li> <li>6. Intern. Soc. for Environ. Information Sciences</li> <li>7. Eco-Ethics International Union</li> </ol>
9	<b>Funded Research Project Completed/ Ongoing</b>	<p>Development of sustainable phytoremediation technology for decontamination of industrial effluents., as Principal Investigator under Fast Track Young Scientist Programme sponsored by Department of Science and Technology, Govt of India, New Delhi</p> <p>Assessment and Development of Phytoremediation Technology for Remediation of Heavy Metals Contaminated Wastewater and Agricultural Soils as Principal Investigator. sponsored by Gujarat Council on Science and Technology (GUJCOST), Gandhinagar</p> <p>Bioremediation of Heavy Metals from Industrial Contaminated Wastewater by Algal Biomass as a Co- Principal Investigator, University Grant Commission, New Delhi</p> <p>Removal of Heavy Metals Contaminated Soils by Using Biological Treatment System. Sponsored as Principal Investigator sponsored by Gujarat Council on Science and Technology, Gandhinagar</p> <p>Study on the Environmental Management System. Supported by Project Cost: as Principal Investigator sponsored by Glenmark Pharmaceuticals Limited, SEZ, Dahej</p> <p>A Novel eco-friendly hybrid process for enrichment of sodium lignosulphonate from digester black liquor of Prosopis juliflora hard wood. Sponsored by Department of Science and Technology, Govt. of India, New Delhi</p>
10	<b>Ph.D Student Area of Works</b>	<ol style="list-style-type: none"> <li>1. Development of Bioremediation techniques for Pollutant Elements</li> <li>2. Environmental Monitoring and Assessment</li> <li>3. Environmental Sustainably Study</li> <li>4. Development of wastewater treatment process</li> <li>5. Environmental Contamination and Toxicology</li> </ol>

11	List of Selected Research Paper	<p>B.K. Dube, <b>K.K Tiwari</b>, J. Chatterjee, C. Chatterjee, (2003) Excess chromium alters uptake and translocation of certain nutrients in citrullus. <b>Chemosphere</b> 53: 1147–1153</p> <p><b>K. K. Tiwari</b>, S. Dwivedi, U. N. Rai, A. K. Pandey, C. Chatterjee, N. K. Singh, R. D. Tripathi, (2006) Phytotoxic Effect of Coal Mine Effluent on Growth Behavior, Metabolic Changes, and Metal Accumulation in Rice Plants (<i>Oryza sativa</i> L.) c.v. IR-36. <b>Bulletin of Environmental Contamination and Toxicology</b> 77:194–202</p> <p>S. Dwivedi, R.D. Tripathi , S. Srivastava, S. Mishra, M.K. Shukla, <b>K. K. Tiwari</b>, R. Singh, U.N. Rai, (2007) Growth performance and biochemical responses of three rice (<i>Oryza sativa</i> L.) cultivars grown in fly-ash amended soil. <b>Chemosphere</b> 67: 140–151</p> <p>Arun K. Pandey, S. K. Srivastava, <b>K. Tiwari</b> (2007) Fog Water Harvesting. <i>Everyman’s Science</i>. Vol. XLII, 4, 190-193.</p> <p><b>K. K. Tiwari</b>, S. Dwivedi , S. Mishra, S. Srivastava, R. D. Tripathi, N. K. Singh, S. Chakraborty (2008) Phytoremediation efficiency of <i>Portulaca tuberosa</i> rox and <i>Portulaca oleracea</i> L. naturally growing in an industrial effluent irrigated area in Vadodra, Gujrat, India. <b>Environmental Monitoring and Assessment</b> 147: 15–22.</p> <p><b>K. K. Tiwari</b>, B. K. Dube. P. Sinha, C. Chatterjee, (2008) Phytotoxic effects of high chromium on oxidative stress and metabolic changes in <i>Citrullus</i>, <i>Indian Journal of Horticulture</i> , 65 (2), 171-175.</p> <p><b>K. K. Tiwari</b>, S. Dwivedi, N.K. Singh, U.N. Rai, R.D. Tripathi (2009) Chromium (VI) induced phytotoxicity and oxidative stress in pea (<i>Pisum sativum</i> L.):Biochemical changes and translocation of essential nutrients. <b>Journal of Environmental Biology</b> 30 (3), 389-394.</p>
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	<p>S. Chakraborty, T. Bhattacharya, T.N. Patel, <b>K. K. Tiwari</b> (2010) Biodegradation of phenol by native microorganisms isolated from coke processing wastewater. <b>Journal of Environmental Biology</b>, 31 293-296.</p> <p><b>K. K. Tiwari</b>, N.K.Singh, M.P.Patel, M.R.Tiwari, U.N.Rai, (2011) Metal contamination of soil and translocation in vegetables growing under industrial wastewater irrigated agricultural field of Vadodara, Gujarat, India. <b>Ecotoxicology and Environmental Safety</b>, 74: 1670–1677 (USA)</p> <p>Sanjay Dwivedi, A. Mishra, A. Kumar, P. Tripathi, R. Dave, G. Dixit, <b>K. K. Tiwari</b>, S. Srivastava, M. K. Shukla, R. D. Tripathi (2011) Bioremediation potential of genus <i>Portulaca</i> L. collected from industrial areas in Vadodara, Gujarat, India. <b>Clean Technology and Environmental Policy</b>, 14:223–228 (USA).</p> <p>G. R. Chauhan, <b>K. K. Tiwari</b>, J. A. T. da Silva, P Patel, F. Mehta (2011) Simultaneous Estimation of Cetrizine Hydrochloride and Phenylpropanolamine Hydrochloride in Tablet Dosage Form using Reverse Phase HPLC. <b>International Journal of Biomedical and Pharmaceutical Sciences</b>. 5 (1), 61-63.</p> <p><b>K. K. Tiwari</b>, M. R. Tiwari, M. P. Patel, P.V. Patel, G. R. Chauhan (2012). Assessment of Heavy Metals Contamination in Vegetable Crop Plants Irrigated by Industrial Wastewater. <i>International Journal of Health and Pharmaceutical Sciences.</i>, 1 (2), 18-24.</p> <p>G. R. Chauhan , K. D. Patel, H. V. Dholariya, Jitin Patel, <b>K. K. Tiwari</b> (2012) Synthesis, electronic spectra and antimicrobial significance of noval drug based complexes. <i>International Journal of Health and Pharmaceutical Sciences</i>, 1 (2), 83-88.</p> <p>M. R. Tiwari, <b>K. K. Tiwari</b>, S. D. Toliwal (2012) Studies on the Storage Ability of Refiend Rice Bran Oil, Corn Oil, and Their Blends Using Common Packaging Material. <i>International Journal of Health and Pharmaceutical Sciences</i>, 1 (3), 46-54.</p> <p><b>K. K. Tiwari</b>, N. K. Singh, U. N. Rai. (2013) Chromium Phytotoxicity in Radish (<i>Raphanus sativus</i>): Effects on Metabolism and Nutrient Uptake. <b>Bulletin of Environmental Contamination and Toxicology</b>, 91:339–344, Citation: 47</p> <p>M. R. Tiwari, <b>K. K. Tiwari</b>, S. D. Toliwal (2014). Studies on Thermal Stability of Palm -Sesame oil blends during Fat Frying. <i>Journal of</i></p>
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		<p>Scientific &amp; Industrial Research, 73: 153-156. Citation:19</p>
		<p>Patel, M., Kumar N. J.I., <b>Tiwari, K. K.</b> (2014). Chronic toxic effects of Acenaphthene on diverse microalgae and cyanobacteria; <i>Chlorella vulgaris</i> Beijerinck, <i>Desmodesmus subspicatus</i> Chodat and <i>Scytonema</i> sp., <i>International Journal of Agriculture, Environment and Biotechnology</i>, 7, 467-478.</p> <p>Patel, M., Kumar N. J.I., <b>Tiwari, K. K.</b> (2014). Fluoranthene Induced Changes in Photosynthetic Pigments, Biochemical Compounds and Enzymatic Activities in Two Microalgal Species: <i>Chlorella Vulgaris</i> Beijerinck and <i>Desmodesmus Subspicatus</i> Chodat. <i>International Journal of Environment</i>, 3 (1): 41-55.</p> <p>Patel, M., Kumar N. J.I., <b>Tiwari, K. K.</b> (2014). An Investigation on Principle Biochemical Components, Photosynthetic Pigments, Nucleic Acid and Enzymatic Activities of Axenic Culture of <i>Scytonema</i> Sp. Treated with two PAHS: Acenaphthene and Fluoranthene. <i>International Journal of Applied Science and Biotechnology</i>, 2 (1): 34-40.</p> <p>Patel, M. S., <b>Tiwari, K. K.</b>, (2015). Remediation of Acenaphthene and Fluoranthene by <i>Chlorella vulgaris</i> Beijerinck: FTIR based study. <i>International Journal of Bioscience and Technology</i>, 8, (2): 5-9.</p> <p>Patel, M., <b>Tiwari, K. K.</b> (2015). Fluranthene and Acenaphthene Metabolism by <i>Chlorellavulgaris</i>: Identify of Intermediates Formed During Degradation and Its Growth Effects. <i>International Journal of Recent Research and Review</i>, Vol. VIII,(I), 26-33.</p> <p>Parekh, H., Patel, M., <b>Tiwari, K. K.</b> (2016). A detailed study of heavy metal accumulation across highway plant species. <i>Research Journal Agriculture Environment and Management</i>, 5 (1): 32-36.</p> <p>Kaushik Nath , S. C. Panchani , T. M. Patel , H. K. Dave , V. B. Patel , <b>Kamlesh K. Tiwari</b>, Narottam Sahoo (2020): Evaluation of <i>Prosopisjuliflora</i> as a potential feedstock for the production of sodium lignosulfonate from the spent liquor of a laboratory digester, <b>Journal of Wood Chemistry and Technology</b>, 40 (5): 331-347. DOI: 10.1080/02773813.2020.1809677</p> <p>Hardik Parekh, <b>K.K. Tiwari</b> (2020) Phytoremediation of Arsenic Contaminated Soil Using Croton (<i>Codiaeum variegatum</i>) Plants. <i>International Journal of Research Analytical Review</i> 7 (3): 75-79. (E-ISSN 2348-1269, P- ISSN 2349-5138)</p>

		<p>Hardik Parekh, <b>K.K. Tiwari</b> (2020). Phytoremediation of Chromium and Arsenic using hyper accumulating plant (<i>Ruellia Tuberosa</i>). <i>International Journal of Research Analytical Review</i> 7(3): 860-865. (E-ISSN 2348-1269, P- ISSN 2349-5138)</p> <p><b>K.K. Tiwari</b>, M.K. Bidhar, G. Gupta, J. Khan, A.K. Upadhyay , N.K. Singh (2021) Metal accumulation potential and tolerance responses in <i>Alternanthera dentata</i> grown under multi metal treatment. <b><i>Environmental Technology &amp; Innovation</i></b> (24): 1-9.</p> <p>K. Pandey, <b>K. K. Tiwari</b> (2021). Bioaccumulation efficiency and biochemical responses of <i>Tradescantia spathacea</i> under lead, cadmium, chromium and copper exposure. <i>International Journal of Botany Studies</i>. 6, (6): 597-602</p> <p>K. Pandey, <b>K. K. Tiwari</b> (2021). Study on phytoremediation of metal (Cadmium, Copper, lead and Chromium) contaminated soil using <i>Canna indica</i> plant. <i>International Journal of Botany Studies</i>. 6, (6):764-767</p> <p><b>Kamlesh Kumar Tiwari</b>, Manoj Kumar Bidhar, Naveen Kumar Singh (2023) Induced Toxicity and Bioaccumulation of Chromium (VI) in Cluster Bean: Oxidative Stress, Antioxidative Protection Strategy, Accumulation and Translocation of Certain Nutrient. <b><i>Jordan Journal of Biological Sciences</i></b>. Volume 16, issue 2 (June), 2023</p> <p><b>Kamlesh Kumar Tiwari</b>, Naveen Kumar Singh (2023). Chromium (IV) induced physiological and metabolic responses and metal accumulation in <i>Vigna mungo</i> L cv. BVN-3" <b><i>Research Journal of Chemistry and Environment</i></b>. (Accepted 2023)</p>
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12	CHAPTER IN BOOK/PROCEEDINGS	<p><b>K. K. Tiwari</b> (2014). Assessment of groundwater quality in and around various industrial estate of Gujarat, India, , Proceeding book of the Indian water Congress 2014, GCET, Vallabh Vidyanagar, entitled ‘Trends in water science and technology’, published by Charotar Publishing House Pvt. Limited, Anand, pp. 81-88.</p> <p><b>K. K. Tiwari</b>, K. Nath (2014). Emerging Issues in Water Resources, Policies and Management in India, Proceeding book of the Indian water Congress 2014, GCET, Vallabh Vidyanagar, entitled ‘Trends in water science and technology’, published by Charotar Publishing House Pvt. Limited, Anand. pp. 89-96.</p> <p><b>K. K. Tiwari (2019)</b>. Metal Specific Patterns of Tolerance, Accumulation, and Transportation of Heavy Metals in Various Hyperaccumulating Plant Species. In Recent Trends in Green Chemistry &amp; Technology, Ria Publishing House, Anand, Gujarat (2019 First Ed.), pp.63-69.</p> <p>K. Pandey, M. Bidhar, <b>K. K. Tiwari</b> (2019). Green Engineering Through Bioremediation: A New Emerging Narrative Clean Technology for Remediation of Heavy Metals Contaminants. In Recent Trends in Green Chemistry &amp; Technology, <i>Ria Publishing House, Anand, Gujarat (2019 First Ed.)</i>, pp. 121-128.</p>
13	Published Books	<p><b>K. K. Tiwari</b> (2006). Fundamentals of Environmental Education-I. Published by Wonder Books (P) Ltd., Lucknow / New Delhi. (Book).</p> <p><b>K. K. Tiwari</b> (2006). Fundamentals of Environmental Education-II. Published by Wonder Books (P) Ltd., Lucknow / New Delhi. (Book).</p>