# **Resume**

Name: Dr. Prathima B

Assistant Professor **Designation:** 

Department of Civil Engineering

BMS College of Engineering. Bengaluru

 $\underline{Prathimab.civ@bmsce.ac.in}$ 

9632388995



# **Educational Qualification:**

| Qualifi<br>cation | Branch                                | Year of<br>Passing | Institution                               | University      | Class                         |
|-------------------|---------------------------------------|--------------------|---|-----------------|-------------------------------|
| Ph.D              | Area:<br>Environmental<br>Engineering | December,<br>2024  | Indian Institute of Science, Bangalore    | IISc, B'lore    | 8.5 (Course<br>Work)          |
| M.Tech            | Environmental<br>Engineering          | July 2011          | B M S College of<br>Engineering,Bangalore | VTU,<br>Belgaum | FCD<br>(2 <sup>nd</sup> Rank) |
| B.E               | Environmental<br>Engineering          | July 2004          | S J C E , Mysore                          | VTU,<br>Belgaum | FCD<br>(4 <sup>th</sup> Rank) |

# **Professional Experience:**

| Organization   | Designation         | Roles &   | Period                                 |
|--|---------------------|---|--|
|  |                     | Responsibilities  |  |
| BMS College of Engineering, Bangalore  | Assistant Professor | Teaching PG and UG students. Supervising/guiding PG projects  | August 2011 to Till Date               |
| WS Atkins India Pvt Ltd,<br>Bangalore  | Assistant Engineer  | Designing of PHE & Fire services for High Rise Buildings, Residential Building, Commercial buildings, Shopping Malls & Hospitals etc, | October 2006 to<br>June 2009           |
| Town Municipal<br>Council, Gundlupet,<br>Chamarajnagar District<br>(Govt of Karnataka) | Assistant Engineer  | Solid Waste Management –<br>Scientific Disposal   | September 2005<br>to September<br>2006 |

| J S S Polytechnic                    | Lecturer | Teaching | September 2004 |
|--------------------------------------|----------|----------|----------------|
| College, Nanjangud, Mysore District. |          |          | to August 2005 |
| (Collaboration with                  |          |          |                |
| France Govt)                         |          |          |                |
|                                      |          |          |                |

## **Additional Course completed:**

- 1. Completed online training of all eight modules of All India Council for Technical Education: National Initiative for Training of Technical Teachers (NITTTR) March 2025 Examination.
- 2. Online certification courses on "Environmental, Social and Governance (ESG)", from June August 2023, JSS Science and Technology University, Mysore.
- 3. SWAYAM NPTEL Course on "Sustainable Engineering Concepts and Life Cycle Analysis", from July Sep 2024, IIT, Kharagpur.
- 4. Internal Auditor Training Course on Environment Management Systems (Based on ISO 14001:2015 Standard) certified by Bureau Veritas (EMS/002/23/901/A/04).
- 5. Online Course era course on "Nanotechnology: A Maker's Course" by Duke University, 2019, North Carolina State University and The University of North Carolina at Chapel Hill.
- 6. SWAYAM NPTEL course on "Electronic Waste Management Issues and Challenges", Feb Mar 2018, IIT, Kharagpur.
- Online Course era course on "Municipal Solid Waste Management in Developing Countries",
   2018 by École Polytechnique Fédérale de Lausanne.

#### Research Profile Id's:

- 1. https://scholar.google.com/citations?user=RZXRYp4AAAAJ&hl=en&authuser=2
- 2. ResearcherID: P-6200-2015
- 3. <u>Scopus Author ID: 57209285808</u>
- 4. https://orcid.org/0000-0003-3364-581X

## **Papers Published:**

1. **Prathima Basavaraju** ,Kalyani Kulkarni, and Sivakumar Babu G L (2025), "Impact of Soil Particle Size Distribution on Zinc Immobilization Using Nano Zero Valent Iron" Journal of Hazardous, Toxic, and Radioactive Waste, Volume 29, Issue 2, https://doi.org/10.1061/JHTRBP.HZENG-141

- 2. Prathima, B., Sivakumar Babu, G.L. (2025) "Integrated Framework for Sustainable Remediation ofSoil Contamination in India: From Investigation of Implementation". Journal Institute of Indian Science (2025). https://doi.org/10.1007/s41745-024-00456-2
- 3. **B. Prathima,** Vikram Srinivasa Raghvan, Swati Soni, Sai Siva Gorthi, Sivakumar Babu G.L., (2024). "Sulfide-enhanced carboxymethyl cellulose stabilised nano zero-valent iron for chromium(VI) mitigation in water: Evidence from batch and column studies", Journal of Water Process Engineering, Volume 66, 105832, ISSN 2214-7144. https://doi.org/10.1016/j.jwpe.2024.105832
  - **4. Prathima, B.,** Sivakumar Babu, G. L., Ullas, S., & Lokesh, H. K. (2023). Risk assessment of toxic metals and groundwater quality assessment in an industrial hotspot of Bengaluru, India case study. Human and Ecological Risk Assessment: An International Journal, 29(5–6), 966–989. <a href="https://doi.org/10.1080/10807039.2023.2223651">https://doi.org/10.1080/10807039.2023.2223651</a>
- 5. Kalyani Kulkarni, Prathima Basavaraju and Sivakumar Babu (2023). Effect of Grain Size Distribution of Soil on Immobilization of Cadmium and Nickel in Contaminated Soil Using Nano Zerovalent Iron: A Factorial Design and Response Surface Methodology Approach. Journal of Hazardous, Toxic, and Radioactive Waste; 27:3. ASCE. <a href="https://doi.org/10.1061/JHTRBP.HZENG-1195">https://doi.org/10.1061/JHTRBP.HZENG-1195</a>
- 6. Ramaswwamyreddy, S, Prathima B, Reshmidevi T V, and Nagesh M A, (2021). Effect of Water and Soil Quality on Crop Productivity. In: Leal Filho, W., Azul, A.M., Brandli, L., Lange Salvia, A., Wall, T. (eds) Clean Water and Sanitation. Encyclopedia of the UN Sustainable Development Goals. Springer, Cham. <a href="https://doi.org/10.1007/978-3-319-70061-8\_65-1">https://doi.org/10.1007/978-3-319-70061-8\_65-1</a>
- 7. Sughosh P, **Prathima B**, Arunkumar M, Anusree N and Sivakumar Babu G.L. (2021) Remediation of typical municipal solid waste dumpsite in Bangalore city, Journal of Hazardous, Toxic, and Radioactive Waste; 25:1-11. ASCE. https://doi.org/10.1061/(ASCE)HZ.2153-5515.000055
- **8.** Manasa and **Prathima B** (2016). Treatability Studies On Biomethanated Spentwash From Distillery Using Advanced Oxidation Processes, The International Reviewer, ISSN 2395-1575, Volume 3, Issue 1, January June 2016, pp. 15-18.
- **9. Prathima B,** Praphulla Rao and Mangala, (2014). Removal of Chromium (VI) from SyntheticSolution using dead Spirulina Species", International Journal of Innovations in Engineering and Technology (IJIET), ISSN: 2319 -1058, Volume 4 Issue 4, pp. 244-

249.

- **10.** Praveen T.H, K.R.Suresh, **Prathima.B** and Gulshan Sachdeva (2014). Development of desalination unit using solar still coupled with evacuated tubes for domestic use in rural areas", Current Science, ISSN: 0011-3891, Volume 107, No.15, pp.1683 1693.
- **11.** Spandana, Dr. K R Suresh and **Prathima B**. (2013). Developing a Soil Quality Index for Vrishabhavathi Command Area. International Journal of Engineering Research and Technology. Volume 2. No. 6 (June-2013). ESRSA Publications.
- **12.** Spandana, Dr. K R Suresh and **Prathima B**, (2013). Developing an Irrigation Water QualityIndex for Vrishabhavathi Command Area, International Journal of Engineering Research and Technology Volume 2. No. 6 (June-2013). ESRSA Publications.
- **13. Prathima B** and Dr. C R Ramakrishnaiah (2012). Hexavalent Chromium Removal From Industrial Wastewater by Chemical Precipitation Method, International Journal of Engineering Research and Applications, ISSN 2248-9622, Volume 2, Issue 2, pp. 599-603.
- **14.** CR Ramakrishnaiah, and **B Prathima** (2011). Hexavalent chromium removal by chemical precipitation method: a comparative study" International Journal of Environmental Research and Development 1 (1), 41-49.

## Papers presented

- 1. Sivakumar Babu, G.L, **Prathima, B**, Kulkarni, K. (2024). "Unveiling Site Contamination: Comprehensive Investigation, Health Risk Assessment, and Management". In: Agnihotri, A.K., Reddy, K.R., Bansal, A. (eds) Geoenvironmental Engineering. EGRWSE 2023. Lecture Notes in Civil Engineering, vol 508. Springer, Singapore.
- 2. **Prathima B,** G. L. Sivakumar Babu, Ramkumar N. (2023), "Effect of Nitrate and Ionic Strength on Hexavalent Chromium (VI) Removal from Aqueous Solution using CMC modified nZVI Optimisation through Response Surface Methodology", Proceedings of the 9ICEG 9th International Congress on Environmental Geotechnics 25-28 June, 2023 | Chania, Greece.
- 3. **Prathima B,** Sughosh P. and Sivakumar Babu G. L. (2021), "Study of heavy metals transport in the vadose zone of contaminated soil", 3rd International Symposium on Coupled Phenomena in Environmental Geotechnics Kyoto, Japan.
- 4. **Prathima B,** Lokesh H. K and G. L. Sivakumar Babu (2020), Subsurface Soil Contamination and Remediation Strategy for Industrial Area of Bangalore,

- Proceedings of Geoenvironment-2020 Conference on Geoenvironment & Sustainability. IIT Delhi.
- 5. G.L. Sivakumar Babu, P Sughosh, **B. Prathima**, T G Parameswaran and N Anusree (2020), Approach for Bioremediation of Municipal Solid Waste Dumps, Proceedings of Geoenvironment-2020 International Seminar on Contaminated Sites, IIT Delhi.
- 6. P. Sughosh, N. Anusree, **B. Prathima**, G. L. Sivakumar Babu (2019), "Estimation of landfill Gas emissions and energy recovery potential from landfills of Bangalore and Mysore: A case study", World environmental and water resources congress 2019, ASCE.
- 7. Sadhan Kumar Ghosh, Biswajit Debnath, Anaya Ghosh, **Basavaraju Prathima**, Khushbu K. Birawat, "(2017), Status of Composting for OFMSW Treatment in Karnataka and West Bengal: Case Studies and Sustainability", 7th IconSWM—ISWMAW 2017, Waste Valorisation and Recycling, Volume 2, Pages 225-236, Publisher Springer, Singapore.
- 8. Khushb K Birawat and **Prathima B and** Dr. Savithri Bhat "Bioremediation of chromium contaminated soil using organic amendments- A case study" at State level Seminar and Exhibition, 2016, Vijayapura, India.
- 9. Khushb K Birawat and **Prathima B,** Dr. Savithri Bhat and Dr. Lakshmi Narayan, "Bioremediation of chromium contaminated soil using organic amendments- A novel approach to safeguard groundwater" at the International conference on Best practices in sustainable water, wastewater and energy management, 2016, Indian Institute of Science, Bangalore, India.
- 10. Khushb K Birawat and Prathima B, "Bioremediation of heavy metal contaminated sites using organic amendments- A review" at the "International Conference on Energy, Environment and Engineering, 2016", Coimbatore Institute of Technology, Coimbatore, India.
- 11. Praveen T.H, K.R.Suresh, **Prathima.B** and Manjunath, "Treatment of Reverse Osmosis Rejected Water Using Solar Energy A Case Study", Proceedings of the International Conference MES 2015, pp.40-45.
- 12. Manasa and **Prathima B,** "Treatability studies on bio-methanated spent wash from distillery using advanced oxidation processes". One Day National Conference Indian Congress of Civil Engineering, December 2015, Acharya Institute of Technology, Bengaluru.
- 13. Pooja and Prathima B, "Removal of copper and Nickel ions from Aqueous solution

- using Chitosan as an adsorbent". One Day National Conference Indian Congress of Civil Engineering, December 2015, Acharya Institute of Technology, Bengaluru.
- 14. **Prathima B,** Praphulla Rao and Mangala, "Biosorption of copper from waste water using spirulina species". International Conference on Advances in Chemical Engineering (ICACE2015), December 20-22, 2015, NITK, Surathkal.
- 15. **Prathima B,** Praphulla Rao and Ramya, "Removal of Chromium from synthetic solution among Chitosan as an absorbent based on Taguchi Method". International Conference on Advances in Chemical Engineering (ICACE 2015), December 20-22, 2015, NITK, Surathkal.

# Total Number of M. Tech project Supervised: 22

# **Workshop Organized:**

- Coordinator for One Day Workshop on "DROUGHT ASSESSMENT USING ADVANCED SCIENTIFIC TOOLS", organized by Department of Civil Engineering on 9<sup>th</sup> May 2014
- Coordinator for Two day Workshop on" APPLICATION OF MODELLING TECHNIQUES IN ENVIRONMENTAL ENGINEERING" organized by Department of Civil Engineering on 4th and 5th July . 2014
- 3. Organizing Committee Member for "3RD INTERNATIONAL CONFERENCE ON MICRO PERSPECTIVES FOR DECENTRALISED ENERGY SUPPLY MES 2015", held at BMSCE during 23rd to 25th April 2015.
- 4. Organizing Committee Member for "AWARENESS WORKSHOP ON OUTCOME BASED EDUCATION (OBE) AND ACCREDITATION FOR ENGINEERING COLLEGES IN KARNATAKA" was jointly organized by National Board of Accreditation (NBA) and Visvesvaraya Technological University, Belagavi, held at BMSCE on 16th April 2023.

# Faculty Development Programme/Workshops Attended:

| Sl<br>No | Name of the Event  | Venue               | Date   |
|----------|--|---------------------|--|
| 1.       | Faculty Orientation Programme  | BMSCE, Bangalore    | 23 <sup>rd</sup> -28 <sup>th</sup> Jan,<br>2012          |
| 2.       | Indo- US Seminar on Hazardous Waste<br>Management<br>Instruction Course on Hazardous Materials<br>Management   | BIT, Bangalore      | 27 <sup>th</sup> -31 <sup>st</sup><br>July,2012          |
| 3.       | ISTE Sponsored one week training programme on Project Management   | BMSCE, Bangalore    | 20 <sup>th</sup> -25 <sup>th</sup> Aug,<br>2012          |
| 4.       | Technological Update on Advances in<br>Chromatography and Environmental<br>Analysis                            | BMSCE, Bangalore    | 15 <sup>th</sup> Sep, 2012                               |
| 5.       | National Workshop on Disaster Management in India  | REVA ITM, Bangalore | 6 <sup>th</sup> – 7 <sup>th</sup> Nov,<br>2012           |
| 6        | One day Workshop on Urban Water<br>Management  | BMSCE, Bangalore    | 23 <sup>rd</sup> Mar, 2013                               |
| 7        | Identification of Slow Learners and Performance Enhancement  | BMSCE, Bangalore    | 20 <sup>th</sup> Aug, 2013                               |
| 8.       | Faculty Orientation Programme  | BMSCE, Bangalore    | 26 <sup>th</sup> Sep – 1 <sup>st</sup><br>Oct, 2013      |
| 9.       | Workshop on Awareness of RoHS  | IISc , Bangalore    | 10 <sup>th</sup> Jan,2014                                |
| 10.      | Two Day workshop on GIS and Modelling – Applications in Environmental Engineering                              | SJCE, Mysore        | 28 <sup>th</sup> -29 <sup>th</sup> March, 2014           |
| 11.      | Two ISTE Workshop on Pedagogy for<br>Effective use of ICT in Engineering<br>Education conducted by IIT, Bombay | BMSCE, Bangalore    | 12 <sup>th</sup> June – 02 <sup>nd</sup><br>August, 2014 |
| 12       | CEP Course on Renewable Energy for Rural Areas   | IIT, Bombay         | 14 <sup>th</sup> – 16 <sup>th</sup> July,<br>2014        |
| 13       | Two day Faculty development Programme on Outcome Based Education – Innovative Classroom practices              | BMSIT, Bangalore    | 18 <sup>th</sup> -19 <sup>th</sup> Sep,<br>2014          |
| 14       | Two Day Workshop on Sustainable<br>Technologies for Educational Campuses                                       | IISc, Bangalore     | 7 <sup>th</sup> – 8 <sup>th</sup> Nov,<br>2014           |
| 15       | International Conference on Transformation<br>Engineering Education  | BMSCE, Bangalore    | 6 <sup>th</sup> – 8 <sup>th</sup> Jan,<br>2015           |
| 16       | Five Day Training programme on "EMS in accordance with ISO 14001 – 2004  | BMSCE, Bangalore    | 27 <sup>th</sup> – 31 <sup>st</sup> Jan,<br>2015         |

| Sl<br>No | Name of the Event   | Venue  | Date  |
|----------|---|--|---|
| 17       | 3 <sup>rd</sup> International Conference On Micro<br>Perspectives For Decentralized Energy<br>Supply – MES 2015 | BMSCE, Bangalore   | 23 <sup>rd</sup> – 25 <sup>th</sup> April,<br>2015    |
| 18       | 5 <sup>th</sup> International Conference on Solid Waste<br>Management   | IISc, Banglore   | 25 <sup>th</sup> – 27 <sup>th</sup> Nov,<br>2015      |
| 19       | International Conference on Advances in Chemical Engineering (ICACE 2015)                                       | NITK, Surathkal  | 20 <sup>th</sup> – 22 <sup>nd</sup> Dec,<br>2015      |
| 20       | Two-day State level workshop on OutcomesBased education: Teaching, Learning and Evaluation Sponsored by NAAC    | BMSCE, Bangalore   | 15 <sup>th</sup> – 16 <sup>th</sup> Feb,<br>2016      |
| 21       | One Week national level workshop on<br>Environmental Management Framework                                       | BMSCE, Bangalore   | 29 <sup>th</sup> Feb -04 <sup>th</sup><br>Mar, 2016   |
| 22       | Two Week Course on "Fate and Transport of Contaminants In the Environment" by GIAN, MHRD                        | SJCE, Mysore   | 13 <sup>th</sup> June – 25 <sup>th</sup><br>June 2016 |
| 23       | Online FDP on Green Energy  | BMS College of<br>Engineering                            | 29 <sup>th</sup> June – 4 <sup>th</sup><br>July 2020  |
| 24       | Online FDP on Climate<br>Change and Carbon Issues (CCCI)  | B.M.S College of<br>Engineering                          | 6 <sup>th</sup> – 10 <sup>th</sup> July 2020.         |
| 25       | Online FDP on Waste Technology  | B.M.S. College of Engineering.                           | 23 <sup>rd</sup> Nov – 27 <sup>th</sup><br>Nov 2020   |
| 26       | Online FDP on Environmental<br>Geotechnology  | University Institute Of<br>Engineering And<br>Technology |   |
| 27       | Online FDP on Waste Valorization towards a Sustainable Environment  | National Institute of<br>Technology Durgapur             | 14 <sup>th</sup> June – 18 <sup>th</sup><br>June 2021 |
| 28       | Online FDP on Advances in Pollution<br>Control Technologies and Sustainable<br>Development                      | Malaviya National<br>Institute of Technology             | 02 <sup>nd</sup> Aug – 06 <sup>th</sup><br>Aug 2021   |
| 29       | Online -Understanding Environmental Laws<br>for Better Environmental Management                                 | Centre for Science and Environment, New Delhi.           | 17th May to<br>28th May 2022                          |
| 30       | Online - Sustainable Nanotechnologies SNT-2022  | GMRIT,<br>Andhrapradesh and NIT<br>Warrnagal.            | 11th – 15th<br>October 2022                           |
| 31       | Online: Urban Water bodies Management:<br>Issues, Challenges, and Potential of Making<br>Water Sensitive Cities | Centre for Science and<br>Environment, New<br>Delhi.     | 28th Sept - 14th<br>Oct, 2022                         |

| Sl<br>No | Name of the Event  | Venue  | Date   |
|----------|--|--|--|
| 32       | Online: Dumpsite Remediation and Landfill Management                       | Centre for Science and<br>Environment, New<br>Delhi                    | 14th Oct - 21st<br>Oct, 2022                             |
| 33       | Waste To Wealth Innovation,  | National Institute Of Technical Teachers' Training & Research, Kolkata | 02 <sup>nd</sup> Dec 2024 -<br>07 <sup>th</sup> Dec 2024 |
| 34       | Empowering Educators: Leadership,<br>Research, and Pedagogical Excellence, | B.M.S. College Of<br>Engineering, Bengaluru                            | 17 <sup>th</sup> Feb 2025 –<br>21 <sup>st</sup> Feb 2025 |

#### **Invited Lectures delivered:**

- Delivered a talk on "Plastic Waste Management- Issues and Challenges" for the course PG Level Advanced Certification Programme in Sustainable Engineering and Smart Cities conducted by IISc, Bengaluru on 10.05.2025
- 2. Delivered a talk on "Sustainability and Life Cycle Assessment" for the course PG Level Advanced Certification Programme in Sustainable Engineering and Smart Cities conducted by IISc, Bengaluru on 17.05.2025.
- 3. Delivered a online talk on "Optimizing Research Visibility: Open Access Tools and Initiatives" for Sardar Patel Institute of Technology, Bombay on 28-02-2025.
- 4. Delivered a talk on "Solid Waste Management Processing Plant, to Assistant Executive Engineers as a part of Capacity Building on SWM Rules and Integration of Digital Monitoring in SWM along with IEC and CB in State Institute of Urban Development on 29.09.2023.
- 5. Delivered a talk on "Safe laboratory protocols and Hazardous Waste Management" Environment Health and Safety (EHS), 28<sup>th</sup> and 29<sup>th</sup> March 2023 organized by Department of Biotechnology B M S College of Engineering, Bengaluru.
- 6. Delivered a talk on "Soil Pollution and remediation of solid waste dump sites" to newly appointed Environmental Engineer" by KPSC in State Institute of Urban Development on 17.06.2022.

## Additional Responsibilities at department level:

- 1. M. Tech Environmental Engineering Coordinator (Since 2012 2016)
- 2. RS and GIS Lab Incharge (Since 2012 2018)
- 3. Environmental Engineering Lab -Incharge (Since 2023 till date)
- 4. Department Academic Committee member (2024 till date)

5. Department Accreditation Committee member (2024 – till date)

# Additional Responsibilities at Institute level:

- 1. NIRF Core Committee member
- 2. Environmental Management Systems ISO 14001: 2015: Core committee Member
- 3. Centre for Innovation, Incubation & Entrepreneurship(CIIE) committee member and Innovation Ambassador
- 4. Digital Display Board: Coordinator

## **Role played at Department Activities:**

- 1. Involved in PG CEE NBA SAR preparation
- 2. Involved in UG NBA Criteria 4 preparation 2013, 2021 and 2025
- 3. Prepared required documents/report required by VTU, TEQIP and IQAC.
- 4. Organized guest lectures and industrial visits for PG CEE students

#### **Achievements:**

- **1.** Under KSCST 39th Series Project Programme SPP Grant, Got seed money of Rs.7.000/- for the PG Project. The project is awarded as the **''Best project of the year-2016''**, by KSCST 2015.
- 2. Won "Best Practice Researcher Award", at International Conference & Exhibition on Best Practices in Sustainable Water, Wastewater and Energy Management, IISc, Bangalore for the paper "Bio Remediation of Chromium Contaminated Soil A Novel Approach to Safeguard Ground Water".
- **3.** One of the team member for International Design Competition for the Rejuvenation of Badami Town Precinct, launched by Catalytic Think Tank Forum and earned a consolation prize money of **Rs** .50,000/-.

# **Courses Handled:**

#### UG

- Water Treatment Technology
- Wastewater Treatment
- Environmental Impact Assessment

## **PG** (Environmental Engineering)

- Applied Environmental Chemistry and Microbiology
- Solid Waste Engineering and Management
- Ecology and Environmental Impact Assessment

#### UG

- Occupational Safety and Health Administration
- Solid Waste Management

# **PG** (Environmental Engineering)

- Occupational Safety and Health Administration
- Nonpoint sources pollution and its management
- Toxicology and Risk Assessment
- Environmental Geotechnology
- Operation and Maintenance of Environmental Facilities
- Numerical methods and Optimization Techniques
- Sustainability and Life Cycle Assessment
- Data Analysis using MS Excel
- Application of Advance Software Tools in Environmental Engineering
- Statistics and Computational Methods
- Water Quality Analysis Lab
- Wastewater Quality Analysis Lab
- Application of Advanced Software Tools in Environmental Engineering

# **Media Coverage:**

- <a href="https://timesofindia.indiatimes.com/city/bengaluru/iisc-team-develops-nanomaterial-to-help-clean-up-chromium-contaminated-water/articleshow/113577486.cms">https://timesofindia.indiatimes.com/city/bengaluru/iisc-team-develops-nanomaterial-to-help-clean-up-chromium-contaminated-water/articleshow/113577486.cms</a>
- <a href="https://www.newindianexpress.com/states/karnataka/2024/Sep/20/iisc-bengaluru-team-finds-nanomaterial-based-solution-to-treat-groundwater">https://www.newindianexpress.com/states/karnataka/2024/Sep/20/iisc-bengaluru-team-finds-nanomaterial-based-solution-to-treat-groundwater</a>
- <a href="https://www.thehindu.com/news/national/karnataka/iisc-researchers-come-up-with-solutions-to-reduce-presence-of-heavy-metals-in-groundwater/article68659890.ece">https://www.thehindu.com/news/national/karnataka/iisc-researchers-come-up-with-solutions-to-reduce-presence-of-heavy-metals-in-groundwater/article68659890.ece</a>
- <a href="https://www.gktoday.in/iisc-develops-nanomaterial-to-clean-chromium-from-groundwater/">https://www.gktoday.in/iisc-develops-nanomaterial-to-clean-chromium-from-groundwater/</a>
- <a href="https://www.latestly.com/agency-news/india-news-iisc-researchers-come-up-with-solution-to-reduce-presence-of-heavy-metals-in-groundwater-6280076.html">https://www.latestly.com/agency-news/india-news-iisc-researchers-come-up-with-solution-to-reduce-presence-of-heavy-metals-in-groundwater-6280076.html</a>
- <a href="https://www.devdiscourse.com/article/science-environment/3092709-innovative-nanomaterial-s-cmc-nzvi-shows-promise-in-tackling-groundwater-contamination">https://www.devdiscourse.com/article/science-environment/3092709-innovative-nanomaterial-s-cmc-nzvi-shows-promise-in-tackling-groundwater-contamination</a>
- https://www.techexplorist.com/nanomaterial-based-solution-chromium-mitigation-water/90114/

- https://www.azonano.com/news.aspx?newsID=41064
- <a href="https://m.economictimes.com/news/science/iisc-team-develops-nanoparticle-based-solution-to-reduce-heavy-metals-in-groundwater/articleshow/113497329.cms">https://m.economictimes.com/news/science/iisc-team-develops-nanoparticle-based-solution-to-reduce-heavy-metals-in-groundwater/articleshow/113497329.cms</a>
- <a href="https://smartwatermagazine.com/news/indian-institute-science/nanoparticle-based-remediation-chromium-contaminated-water-shows-high">https://smartwatermagazine.com/news/indian-institute-science/nanoparticle-based-remediation-chromium-contaminated-water-shows-high</a>

I hereby declare that the information furnished above is true to the best of my knowledge and belief.

# Signature

(Dr. Prathima B)

**Date**: 26.05.2025 **Place**: Bengaluru