

**Name: Dr. Kavita Verma**

Gender: Female

Date of Birth: 27-09-1986

Birthplace: Rajasthan, India

Current Address: Bengaluru, Karnataka, India

Total experience: 8 years research and 2.5 years teaching

Current designation: **CSIR-Pool Scientist**

**Institute: Centre for Sustainable Technologies,**

**Indian Institute of Science, Bengaluru, Karnataka**

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**Contact:** +91-9509293731

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### **Research Expertise**

Water & Wastewater Treatment and Management; Disinfection; Reuse of Treated Wastewater for Indirect Groundwater Recharge; Groundwater Management; Sustainable Technologies for Waste to wealth, Microplastics, Biofuels; Environmental Impact Assessment; Sustainable Agriculture Practices; Socio-economic Impact Assessment.

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### **Scholastics**

#### **Doctor of Philosophy**

(Research Title “Hybrid disinfection of sewage using chlorine and UV/ozone in series to optimize the process”) Under the supervision of **Prof. A.B. Gupta**, Malaviya National Institute of Technology, Jaipur, Rajasthan, 2017.

#### **Master of Technology (Environmental Management)**

Jawaharlal Nehru Technological University, Hyderabad, Telangana, 2019- 2022.

#### **Master of Science (Biotechnology)**

Seth G.B. Podar College, Nawalgarh, Rajasthan (University of Rajasthan, Jaipur), 2009.

#### **Bachelor of Science (Biotechnology, Chemistry, Zoology)**

Seth G.B. Podar College, Nawalgarh, Rajasthan (University of Rajasthan, Jaipur), 2007.

#### **Senior Secondary (XII- Biology, Physics, Chemistry)**

Smt. Godavaribai Ramdeo Podar Senior Secondary School, Nawalgarh, Rajasthan with (Board of Sn. Secondary Education, Rajasthan), 2004.

#### **Secondary (X)**

Smt. Godavaribai Ramdeo Podar Senior Secondary School, Nawalgarh, Rajasthan (Board of Secondary Education, Rajasthan), 2002.

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## **International Experience**

- ⇒ Visited **“The Institute of Geography, Faculty of Mathematics and Natural Science, University of Cologne, Germany** as an “Invited Scientist/Postdoctoral” guest under “INGENIoS: Indo-German network interaction of scientists” project {(SP/UGC)-21-0002.04)} funded by the UGC (University Grants Commission), Govt. of India, and the DAAD (German: Deutscher Akademischer Austauschdienst), the German Academic Exchange Service and SPARC-GIANT Project, 2025–2026, titled “Global Citizenship and Environmental Stewardship: Driving Water Sustainability and Resilience Through Efficient Conservation and Utilization” (Project ID: PG250012 / DAAD 57807737)., 2<sup>nd</sup> Nov to 6<sup>th</sup> of Dec 2025.
- ⇒ Visited **“The Institute of Geography, Faculty of Mathematics and Natural Science, University of Cologne, Germany** as an “Invited Scientist” guest under “INGENIoS: Indo-German network interaction of scientists” project {(SP/UGC)-21-0002.04)} funded by the UGC (University Grants Commission), Govt. of India, and the DAAD (German: Deutscher Akademischer Austauschdienst), the German Academic Exchange Service, 21<sup>st</sup> feb to 9<sup>th</sup> March 2024.
- ⇒ Visited **“The Institute of Geography, Faculty of Mathematics and Natural Science, University of Cologne, Germany** as an “Invited Junior Scientist/Postdoctoral” guest under “INGENIoS: Indo-German network interaction of scientists” project {(SP/UGC)-21-0002.04)} funded by the UGC (University Grants Commission), Govt. of India, and the DAAD (German: Deutscher Akademischer Austauschdienst), the German Academic Exchange Service, 16<sup>th</sup> Sept to 16<sup>th</sup> of October 2024.
- ⇒ 11<sup>th</sup> International Conference on Environment Pollution and Prevention (ICEPP 2023), at **Brisbane Australia**, 10<sup>th</sup>-12<sup>th</sup> November, 2023.
- ⇒ 9<sup>th</sup> International Colloids Conference, 16-19 June, **Sitges, Spain** 2019.
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## **Employment Track**

### **CSIR-Pool Scientist (SRA) at Indian Institute of Science and Technology (IISc), Bengaluru, Karnataka, January 2024 -Till date**

- ⇒ Working on interdisciplinary projects such as
- (i) “Waste to Energy” project funded by CSIR, the Govt. of India
  - (ii) “Large scale recycling of treated urban wastewater for indirect groundwater recharge in semi-arid areas” funded by Govt. of Karnataka, India.
  - (iii) “Pharmaceutical Industrial Effluent treatment through plasma process for improved recycling”, funded by DST-WTI.
  - (iv) “Fate of Micro plastics in Wastewater Recycling Systems for Indirect Groundwater Recharge and Its Application in Irrigation Practices”, funded by DST-DAAD.
  - (v) “Evaluation of the Kharland Reclamation Project (EKP) coming under Coasting Area of Uttar Kannada district”, funded by Minor Irrigation department, Govt. of Karnataka, India.
  - (vi) “Study of Biofilms to understand microbial growth and attachment”, funded by Larsen & Toubro Limited, Construction(L&T).

(vii) “Plasma Activated Water - A sustainable solution to Antimicrobial Resistance”, funded by BIRAC-NBM

(viii) “Partial Replacement of High Silica Sand with Blast Furnace Slag for Cement Mortar Lining”, funded by Tata Metallics LTd.

(ix) “Groundwater Recharge through Treated Urban Wastewater for Sustainable Water Supply of Tier-2 Towns IGROW-T2”, funded by DST-WTC.

(x) “Inter-Disciplinary Approach to Sustainable Habitats using AI-ML Tools: Water & Wastewater Management, Energy Systems, Material Selection, Agricultural Practices with Law and Policy Interventions”, funded by Indo-German Science & Technology Centre.

⇒ Lab In-Charge

⇒ Guiding Students

⇒ Writing Research Proposals

⇒ Academic Classes

**SERB- National Postdoctoral Fellow at Indian Institute of Science and Technology (IISc), Bengaluru, Karnataka, November 2022 -December 2023**

⇒ Working on a project entitled “Identification and remediation technology for Microplastics in drinking water,” Funded by Govt. of India

⇒ Lab In-charge

⇒ Guiding Students

⇒ Writing Research Proposals

⇒ Academic Classes (B.Tech)

**Research Scientist at Indian Institute of Science and Technology (IISc), Bengaluru, Karnataka, September 2021 -October 2022**

⇒ Working on a project entitled “Indirect Recharge of Groundwater using Secondary Treated Wastewater,” Funded by MI Department of Karnataka under Dr. L.N. Rao

⇒ Lab In-charge

⇒ Guiding Students

⇒ Writing Research Proposals

⇒ Academic Classes (B.Tech)

**DBT-Research Associate (Govt. of India), 2018- July 2021.**

⇒ Research Title “Cultivation of *Chlorella vulgaris* along with Symbiotic Bacteria and Recovery of Value-Added Products from its Biomass Using Hydrothermal Process”) under the supervision of Prof. V. Himabindu, JNTU Hyderabad.

⇒ Guiding Students

⇒ Writing Research Proposals

⇒ Academic Classes

**Assistant Professor at JECRC University, Jaipur, Rajasthan, Aug’2016-Nov’2016**

⇒ Teaching courses in postgraduate and undergraduate programmes in the Department of Biotechnology

⇒ Member of Placement Cell

## Aug'09-Mar'12 at Seth G.B. Podar College, Nawalgarh, Rajasthan as Lecturer

- ⇒ Teaching courses in undergraduate programmes in department of Biotechnology
- ⇒ Member of examination department

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### Papers Published in Journals

1. **Kavita Verma**, Manjari Manisha, Shwetha J, Ramesh N, Mohan Kumar MS, Chanakya HN, Parama V. R. R., Sarala Kumari J, Lakshminarayana Rao, 2025. Sustainable Agriculture Practices to Combat Water Crises: Comparative Field Study on the Effects of using Direct Recycled Water, Indirectly Recharged Groundwater, and Rain-Fed Borewell Water on Soil and Crop Health. *Groundwater for Sustainable Development (Elsevier)*. Impact factor: 5.6. Accepted.
2. Manisha, M., **Verma, K.**, Ramesh, N., Anirudha, T.P., Santrupt, R.M., Chanakya, H.N., Patil, B., Kumar, M. and Rao, L., 2024. Assessing Public Health Risks of Indirect Groundwater Recharge with Recycled Water in Semi-Arid Regions. *Environmental Monitoring and Assessment (Springer)*. Impact factor: 3.2. Accepted.
3. **Verma, K.**, Thattarampilli, R. M., Mishra, A., HS, R., Ramesh, H., Sundar, S., ... & Rao, L. (2025). Assessing microbial biofilm growth on textile media and its efficiency for wastewater treatment. *Science of The Total Environment, 1004*, 180784.
4. Manisha, M., **Verma, K.**, Chanakya, H. N., Mohan Kumar, M. S., & Rao, L. (2025). Securing India's Water Future Using Treated Wastewater: A Need for Groundwater Recharge Standards. *Water Resources, 52(5)*, 1011-1033. 10.1134/S0097807824606228
5. Manisha, M., **Verma, K.**, Chanakya, H. N., & Rao, L. (2025). Reuse of Treated Wastewater: A Key Driver for Achieving All Sustainable Development Goals. *Journal of the Indian Institute of Science*, 1-33. <https://doi.org/10.1007/s41745-025-00473-9>
6. **Kavita Verma**, Manjari Manisha, Shivali NU, Santrupt RM, Chanakya HN, Lakshminarayana Rao, 2025. Need for Revitalizing Sustainable Water Practices along with Modern Technologies to Combat Water Crises in India. *The Journal of the Indian Institute of Science (Springer)*. Impact factor: **2.3**. [10.1007/s41745-025-00471-x](https://doi.org/10.1007/s41745-025-00471-x)
7. Manisha, M., **Verma, K.**, Ramesh, N., Anirudha, T.P., Santrupt, R.M., Chanakya, H.N., Patil, B., Kumar, M. and Rao, L., 2024. Cost-benefit analysis of large-scale recycling of treated wastewater for indirect groundwater recharge in a semi-arid region. *Groundwater for Sustainable Development, 26*, p.101284. Impact factor: **5.9**. <https://doi.org/10.1016/j.gsd.2024.101284>
8. Manisha, M., **Verma, K.**, Narayanaswamy, R., Marigoudar, S. R., Hoysall, N. C., & Rao, L. (2024). Role of indirect groundwater recharge using recycled water in promoting food security in semi-arid regions. *Environment, Development and Sustainability, 1-33*. (Springer). Impact factor: **4.9**. [10.1007/s10668-024-05249-2](https://doi.org/10.1007/s10668-024-05249-2)
9. Manjari, M., **Verma, K.**, Pranesh, A. T., Marigoudar, S. R., Hoysall, C., & Rao, L. (2024). Achieving water security in India through sustainable wastewater reuse: The roles of policy, politics, and people. *Utilities Policy, 90*, 101814. Impact factor: **4**. <https://doi.org/10.1016/j.jup.2024.101814>
10. **Kavita Verma**, Manjari Manisha, Shivali NU, Santrupt RM, Anirudha TP, Ramesh N, Chanakya HN, Parama V. R. R., Mohan Kumar MS, Lakshminarayana Rao, (2023). Investigating the Effects of Irrigation with Indirectly Recharged Groundwater using Recycled

- Water on Soil and Crops in Semi-arid Areas. *Environmental Pollution (Elsevier)*, 0269-7491, <https://doi.org/10.1016/j.envpol.2023.122516>. Impact factor: **9.8**.
11. **Verma, K.**, Thattarampilli, R. M., Manisha, M., Jayakumar, S., Marigoudar, S. R., Pranesh, A. T., & Rao, L. (2023). Determination of degradation/reaction rate for surface water quality of recycled water using Lake2K model for large-scale water recycling. *Environmental Science and Pollution Research*, 1-18, <https://doi.org/10.1007/s11356-023-30623-4>, Impact factor: **5.8**.
  12. Manisha, M., **Verma, K.**, Ramesh, N., Anirudha, T. P., Santrupt, R. M., & Rao, L. (2023). Water, sanitation, and hygiene implications of large-scale recycling of treated municipal wastewater in semi-arid regions. *Science of The Total Environment (Elsevier)*, 166631. Impact factor: **9.8**. <https://doi.org/10.1016/j.scitotenv.2023.166631>
  13. **Verma, K.**, Manisha, M., Santrupt, R.M., Anirudha, T.P., Goswami, S., Sekhar, M., Ramesh, N., Kumar, M., Chanakya, H.N. and Rao, L., (2023). Assessing groundwater recharge rates, water quality changes, and agricultural impacts of large-scale water recycling. *Science of the Total Environment (Elsevier)*, 877, p.162869. Impact factor: **9.8**. <https://doi.org/10.1016/j.scitotenv.2023.162869>.
  14. **Verma K**, Rucha Vaidya, Mohan Kumar, Chanakya Hoysall and Lakshminarayana Rao, (2023). Assessing Wastewater Management Challenges in Developing Countries: A case study of India, Current Status and Future Scope. *Environment, Development and Sustainability (Springer)*, 10.1007/s10668-023-03540-2. Impact factor: **4.9**.
  15. Manisha, M., **Verma, K.**, Ramesh, N., Anirudha, T. P., Santrupt, R. M., Das, R., ... & Rao, L. (2023). Socio-economic impact assessment of large-scale recycling of treated municipal wastewater for indirect groundwater recharge. *Science of The Total Environment*, 859, 160207. (Elsevier), Impact factor: **9.8**. <https://doi.org/10.1016/j.scitotenv.2022.160207>
  16. **Verma K**, Kumar PK, Krishna SV, & Himabindu V. (2021). Phycoremediation of Sewage Contaminated Lake Water Using Microalgae-Bacteria Co-culture. *Water, Air, and Soil pollution (Springer)*, 10.1007/s11270-020-04652-5, Impact factor: **3.8**.
  17. Shekhawat, S. S., **Verma, K.**, & Gupta, A. B. (2020). Challenges and Future Prospects of Wastewater Reuse for Agricultural Irrigation in Developing Countries: A Mini Review. *ACTA SCIENTIFIC AGRICULTURE (ISSN: 2581-365X) Volume 4 Issue 6*, Impact factor: **1.18**.
  18. Kumar PK, Krishna SV, Naidu SS, **Verma K**, Bhagawan D, & Himabindu V. (2019). Biomass Production from Microalgae Chlorella grown in Sewage, Kitchen Wastewater using Industrial CO<sub>2</sub> emissions: Comparative study. *Carbon Resources Conversion*, 2(2), 126-133, <https://doi.org/10.1016/j.crcon.2019.06.002>, Impact factor: **6.0**.
  19. Krishna SV, Kumar PK, **Verma K**, Bhagawan D, Himabindu V, Narasu ML, & Singh R. (2019). Enhancement of Biohydrogen Production from Distillery Spent Wash Effluent using Electrocoagulation Process. *Energy, Ecology and Environment (Springer)*, 4(4), 160-165, <https://doi.org/10.1007/s40974-019-00122-9>, Impact Factor: **3.9**.
  20. Saranga VK, Kumar PK, **Verma K**, Bhagawan D, Himabindu V, & Narasu ML. (2019). Effect of Biohydrogen Production from Distillery Spent Wash with Addition of Landfill Leachate and Sewage Wastewater. *Applied biochemistry and biotechnology (Springer)*, 190(1), 30-43, doi:10.1007/s/2010-019-03087-x, Impact Factor: **3.1**.
  21. Kumar PK, Krishna SV, **Verma K**, Pooja K, Bhagawan D, Srilatha K & Himabindu V. (2018). Bio-oil production from microalgae via hydrothermal liquefaction technology under subcritical water conditions. *Journal of Microbiological Methods (Elsevier)*, 153, 108-117, doi:10.1016/j.mimet.2018.09.014, Impact Factor: **2.28**.

22. Kumar PK, Krishna SV, **Verma K**, Pooja K, & Himabindu V. Phycoremediation of Sewage Wastewater and Industrial Flue Gases for Biomass Generation from Microalgae. *South African Journal of Chemical Engineering (Elsevier)*, 25, 133-146, doi:10.1016/j.space.2018.04.006, 2018, Impact Factor: **5.5**.
23. **K. Verma**, Gupta, A. B., & Singh, A. (2017). Optimization of chlorination process and analysis of THMs to mitigate ill effects of sewage irrigation. *Journal of environmental chemical engineering*, 5(4), 3540-3549., Impact Factor: **7.9**.
24. **K. Verma**, D. Gupta, A.B. Gupta, “Optimization of ozone disinfection and its effect on trihalomethanes.” *Journal Environmental Chemical Engineering (Elsevier)*, 2016, 4(3), 3021-3032, 10.1016/j.jece.2016.06.017, Impact Factor: **7.9**.
25. **K. Verma**, P. Shukla, A.B. Gupta, K.D. Gupta, “Hybrid disinfection of sewage effluent – a comparative study of three secondary treatment plants of Jaipur, India.” *Desalin. Water Treat. (Taylor & Francis)*, Vol. 57(44), 20758-20765, 10.1080/19443994.2015.1110729, 2015, Impact Factor: **1.2**.
26. **K. Verma**, K.D. Gupta, A.B. Gupta, “A review on sewage disinfection and need of improvement.” *Desalin. Water Treat. (Taylor & Francis)*, 56(11), 2867-2871, doi:10.1080/19443994.9673, 2014 Impact Factor: **1.2**.
27. **K. Verma**, K.D. Gupta, A.B. Gupta, “Disinfection using chlorine with step doses”, *Res. Rev. J. Eng. Technol.* 2 (2013) 282–286, ICE-WWISH, ISSN 23199873

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### Papers Published in Book

- ⇒ V. Himabindu, **Kavita Verma**, Kiran Kumar Panga, Vijaya Krishna, “Valorization of Microalgal Biomass to Produce Biofuels and Essential Nutraceuticals”, Taylor & Francis Group, CRC Press, ISBN 9781032112770.

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### Papers Published in Conferences

- ⇒ Verma, K., Manisha, M., Shwetha J, Santrupt, R.M., Anirudha, T.P., and Rao, L., 2023, “Assessment of Microplastics in Drinking Water Sources of India: It’s Future Perspective” in 11<sup>th</sup> International Conference on Environment Pollution and Prevention (ICEPP 2023), at Brisbane Australia, 10<sup>th</sup>-12<sup>th</sup> November, 2023.
- ⇒ Verma, K., Manisha, M., Santrupt, R.M., Anirudha, T.P., Goswami, S., Sekhar, M., Ramesh, N., Kumar, M., Chanakya, H.N. and Rao, L., 2023, “Pumping treated wastewater from urban to rural areas for rejuvenation of surface waterbodies and indirect groundwater” in 4<sup>th</sup> International Conference on Waste Management (Recycle 2023), 18-19 May 2023 at IIT Guwahati.
- ⇒ Kavita Verma\*, Panga Kiran Kumar, S. Vijaya Krishna, Dr. V. Himabindu, and S. Rahul Kumar “Microalgae Biomass to Recover Value Added Products from Sewage (Review)” in “InDACON 2020, International Conference on Sustainable Technologies for Desalination & National Water Mission and Annual Congress of InDA” on 13-15 Feb, 2020, Indus University, Ahmadabad.
- ⇒ Kavita Verma\*, Panga Kiran Kumar, S. Vijaya Krishna, Dr. V. Himabindu, “Microalgae Biomass to Recover Value Added Products from Sewage (Review)” in “9<sup>th</sup> International Colloids Conference” from June 16, 2019 to June 19, 2019 at Barcelona, Spain.
- ⇒ V. Tanwar, H. Mangla, M. Goyal and K. Verma, “Review on Drug Designing-Cannabinoids.” *International Seminar on Recent Trends in Chemical Sciences: Global Prospective and*

*Progress*, S.G.G. Govt. College, Banswara, Rajasthan, 28-29<sup>th</sup> Nov, 2016. ISBN: 978-93-5265-436-9.

- ⇒ D. Phagiwala and K. Verma, “A Review on Occupational Related Hazards” ICSSR Sponsored *National Conference on Environmental Pollution: Consequences and Control in Association with IAAPC*, ICG, Jaipur, Rajasthan, 7 to 8<sup>th</sup> Oct 2016.
- ⇒ K. Verma, P. Shukla, A.B. Gupta, K.D. Gupta, “Biological analysis and effect of disinfection on secondary treated effluent of RBC (MNIT), Jaipur.” *The 3rd Environment Asia International Conference on “Towards International Collaboration for an Environmentally Sustainable World”*, Thai Society of Higher Education Institutes on Environment, Thailand, 17-19 June, 2015.
- ⇒ K. Verma, P. Shukla, K.D. Gupta, A.B. Gupta “Comparative Study of U.V. and Chlorine Disinfection of Secondary Treated Sewage from Three Different STP of Jaipur, India.” *47<sup>th</sup> Annual Convention of Indian Water Works Association*, Kolkata, West Bengal, 30 – 1<sup>st</sup> Feb 2015.
- ⇒ K. Verma, K.D. Gupta, A.B. Gupta, “Development of advanced strategy to disinfect wastewater and its effect on THMs.” *International Conference on Current Challenges in Drug Discovery Research (CCDDR)*, Jaipur, India, 30 Jan-1 Feb, 2015.
- ⇒ K. Verma, K.D. Gupta, A.B. Gupta “Hybrid Disinfection Technology for Secondary Treated effluent of STP” *National conference on Water and Sustainable Development*, World Water Day organized by IWWA, Jaipur and Department of Civil Engineering and Chemistry, VIT, Jaipur, 21<sup>st</sup> March 2015.
- ⇒ K. Verma, K.D. Gupta, A.B. Gupta, “An Advanced Disinfection Technology Using Chlorine as Step Dosing.” *International Conference on Water Desalination, Treatment & Management*, INDACON, Jaipur, India, 21-22 Feb, 2013.
- ⇒ K. Verma, S. Shekhawat, K.D. Gupta, A.B. Gupta, “Disinfection using chlorine with step doses.” *International Conference on Water, Wastewater and Isotope Hydrology*, Bangalore, India, 25-27 July, 2013
- ⇒ K. Verma, K.D. Gupta, A.B. Gupta, “Disinfection Using Chlorine – Some Directions for Future,” *National Conference on “Water Quality Management”*, NCWQM-12, Jaipur, India, 20-22 Dec, 2012.

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## Achievements and Accolades

- ⇒ Succeeded in getting research funding from different government agencies for the department like **DST, DBT, SERB, BIRAC, state government**, etc.
- ⇒ **Best presenter award** in “11<sup>th</sup> International Conference on Environment Pollution and Prevention (ICEPP 2023), at Brisbane, Australia, 10<sup>th</sup>-12<sup>th</sup> November, 2023”.
- ⇒ **Best presenter award** in “4<sup>th</sup> International Conference on Waste Management (Recycle 2023), 18-19 May 2023 at IIT Guwahati.
- ⇒ **Receiver of three postdoctoral fellowships from Govt. of India: (i) DBT-RA (2018-2021); (ii) SERB-NPDF (2021-till date) and (iii) CSIR-SRA**
- ⇒ **Women Scientist Award** in International Congress of Biotechnology (C0B-2022) for presenting on “Recovery of By-products from Microalgae Biomass using Hydrothermal Liquefaction”, June 10<sup>th</sup> -11<sup>th</sup>, 2022.

- ⇒ Participated in several Webinars on Waste to Energy- 2020.
  - ⇒ Received “**International Travel Support from SERB-DST**” to attend the International conference, 9th International Colloids Conference, 16-19 June, Sitges, Spain 2019.
  - ⇒ Selected for participation in “3rd National Post Doc Symposium 2019, which was held from 10th to 13<sup>th</sup> December 2019, at IISER Pune, Maharashtra.
  - ⇒ **Research Ratna Awards 2019** for co-authored paper “Bio oil production from microalgae via hydrothermal liquefaction technology under subcritical water conditions”, held at Trichy, Tamilnadu, 2019.
  - ⇒ Invited to present a paper in 9<sup>th</sup> Indo-German Frontiers of Engineering Symposium (INDOGFOE 2016) sponsored by the Department of Science and Technology, India, and the Alexander von Humboldt Foundation, Germany Humboldt Foundation, Germany, 2017.
  - ⇒ Selected for a training program on “Proteomics Approaches for Women Scientists in Life Sciences” sponsored by DST, Government of India, New Delhi and organized by Banaras Hindu University, Varanasi, 2017.
  - ⇒ Life member of Indian Desalination Association and BRSI.
  - ⇒ Participated in Indo- Japan International Symposium on “Facilitating Interdisciplinary Biotech for Future Entrepreneurship” Aug 11-12, 2008 at Biyani Girls College, Jaipur.
  - ⇒ Participated in U.G.C. sponsored state level seminar on “Recent trends in biotechnology in crop improvement and its Indian perspective”.
  - ⇒ Volunteer in NSS from 2005 to 2007 at Seth G. B. Podar College, Nawalgarh, Jhunjhunu.
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## References:

1. Dr. A. B. Gupta (Professor at Department of Civil Engineering, MNIT Jaipur, Rajasthan), [abgupta.ce@mnit.ac.in](mailto:abgupta.ce@mnit.ac.in).
2. Dr. L.N. Rao, (Associate Professor at CST, IISc Bengaluru), [narayana@iisc.ac.in](mailto:narayana@iisc.ac.in)
3. Dr. V. Himabindu (Professor at Centre for Environment, JNTUH, Hyderabad), [drvhimabindu@jntuh.ac.in](mailto:drvhimabindu@jntuh.ac.in)
4. Dr. Sandeep Kumar, (Professor and Chair, Department of Civil and Environmental Engineering, Old Dominion University, Norfolk, Virginia), [skumar@odu.edu](mailto:skumar@odu.edu)
5. Dr. Christina Bogner, (Professor at Mathematics and Natural Sciences, Institute of Geography, University of Cologne, Germany), [christina.bogner@uni-koeln.de](mailto:christina.bogner@uni-koeln.de)