CURRICULUM VITAE

Prof. Arun Kansal

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CAREER SUMMARY

Prof. Kansal has over 30 years of professional experience in interdisciplinary research, consulting, and teaching in environmental science and climate policy, water resources management, regional studies, air pollution, waste treatment, urban environment, and energy-environment-climate linkages and trade-off analysis. He has served as Vice Chancellor (Acting), Dean (Academic), and Dean (Research and Partnership). He is the Director of the Centre of Excellence (IPCA Centre for Waste Management and Research) at TERI School of Advanced Studies (TERI SAS), New Delhi.

International experience: Prof Kansal has served as ICCR Chair Professor (sponsored by MoEA, GoI) for Environmental Science and Policy at Freie Universität, Germany (2010–2011). Later, he served as a lead author for IPCC AR5, WGIII. He has been an Honorary Senior Research Fellow at the University of Birmingham, UK (2011–14), Visiting Professor at the University of Derby, UK (2015–2018), Key Technology Partner Visiting Fellow at the University of Technology Sydney (UTS), Australia, and Co-Lead, Thematic Working Group on Water, HUC, ICIMOD, Kathmandu. He has secured several project grants from multilateral organisations, the GoI, corporates, and foundations. He led, designed, and executed an international e-learning program on 'Sustainable Development Practices in Public Policy' for mid-career policymakers. The program was under the aegis of UNU-IAS, Japan, in collaboration with Tongji University, China; Universiti Sains Malaysia; the University of the South Pacific, Fiji; and AIT, Thailand. He got opportunities for several international visits wherein he had a chance to interact with scholars from prestigious institutions in the UK, USA, Australia, Japan, South Korea, China, Ireland, Thailand, Malaysia, Spain, Italy, Norway, Germany, etc.

Administrative and leadership experience: In the year 2014, he was instrumental in securing grants from Coca-Cola Foundation, Atlanta to establish the Department of Regional Water Studies at TERI SAS. In the year 2022, he secured grants using crowd funding model from Corporates and NGOs to establish Centre of Excellence for Waste Management and Research at TERI SAS. In both, he led team of faculty members and scientists and secured several other project grants to financially sustain the activities of Department/Centre. He had served as Dean (Research and Relationship), Dean (Academic), and Head of the Department. Currently, he is serving as Director, ICWMR spearheading a Centre of Excellence.

Interdisciplinarity: This is evident from his education and research profile. he graduated in Civil Engineering, did M.Tech in Environmental Engineering and Ph.D. research had applications in

Econometrics. In his professional career he has worked on projects related to technology, policy, and management aspects of sustainability science. He had taught courses ranging from engineering, geography, human geography, and environmental policy.

EDUCATION

B.E., 1993, **Civil Engineering**, VRCE/VNIT, Nagpur (Secured 73.76%)
M.Tech., 1994, **Environmental Engineering**, VRCE/VNIT, Nagpur (Secured 78.15%)
Ph.D., 2007, in *Valuation of health benefits of World Bank guidelines for air emissions in TPPs* from Department of **Civil Engineering**, IIT Delhi. Date of Defense: July 19, 2007

EMPLOYMENT BEFORE THE PRESENT POST IN CHRONOLOGICAL ORDER

Total work experience: >29 years

April 1995 - October 1995	Sr. Project Fellow, NEERI, Nagpur.
December 1995 – July 1999	Research Associate, TERI, Delhi.
July 1999 - April 2008	Lecturer, GGS Indraprastha University (Sr Scale in 2005)
May 2008 - June 2009	Assistant Professor, TERI University
June 2009 - October 2013	Associate Professor, TERI University
November 2013 – to date	**Professor, TERI School of Advanced Studies**

In between

March'16 – December 2016	**Professor & Dean (Academic), Gautam Buddha University (On Lien)**
October 2010- February 2011	**ICCR Chair Professor, Freie University, Germany (on Deputation)**

RECOGNITIONS AND POSITIONS

- Teaching staff mobility at the University of Graz, Austria, in the Erasmus+International (KA 171) program framework in 2024
- Visiting Professor in Natural Science, University of Derby, United Kingdom (2015-18)
- Honorary Senior Research Fellow, University of Birmingham, United Kingdom (2011-14)
- Roll of Honor by TERI, New Delhi in 2011-12
- ICCR Chair Professor to Freie University, Berlin, Germany (October 2010 - Feb 2011)
- Key Technology Partner Visiting Fellow, University of Technology, Sydney, Australia, 2013
- Lead author IPCC AR5, WGIII
- Co-Lead on Thematic Working Group on Water, HUC, ICIMOD, Kathmandu 2020
- I S Kenchareddy prize from `Indian Water Works Association' for publication of best research paper in the year 1996
- Best Teacher Award from GGS Indraprastha University in recognition of dedicated & outstanding services towards promoting the cause of the teaching profession during the

year 2000-2001

- TREE fellowship from Renewables Academy, Germany, for a course on Renewable Energy and Energy Efficiency for decision-makers
- Nominated as Expert by Ministry of Urban Development for training of ULBs on SBM

FUNDED PROJECTS (RESEARCH AND CONSULTANCY)

As Principal investigator: Approx. 35 crores

As Co-PI/Team member: Approx. 15 crores

Funding agencies: The World Bank; USAID; UNU; ADB; APN; Enel Foundation; ICEWARM, Australia; DBT; UKIERI, ICIMOD; Corporates, GoI and Foundations

2025	**PI-** Assessment and restoration of water bodies at four sites maintained by the Archaeological Survey of India. Funded by Bisleri International Pvt. Ltd. Rs 15.92 Lakhs plus GST.
2023	**PI-** *Estimation of impact adjusted virtual water of a production unit for water credits: case study of a beverage industry.* Funded by Bisleri International Pvt. Ltd. Rs 14 Lakhs plus GST. Completed
2022	**PI**- *Appraisal of DPR for development of sewerage system in the left-our areas of Leh Town.* By Office of the Executive Officer Municipal Committee, Leh; The administration of Union Territory of Ladakh. Rs 1,28,620 + GST. Completed **PI**- *Appraisal of DPR for Setting up of Comprehensive sewerage scheme including Sewerage Treatment Plant in Kargil Town.* By Office of the Executive Officer Municipal Committee, Kargil; The Administration of Union Territory of Ladakh. Rs 1,28,620 + GST. Completed. **PI-** *Assessment of activities implemented by IPCA under the CSR project of SBI card.* By Indian Pollution Control Association. Rs 1,20,000 + GST. Completed
2021	**PI-** *Towards sustainable urban water management in HKH Region: a participatory approach to improving water sustainability in mountain cities.* Funded by: Asia Pacific Network (APN) for Global Change Research, Japan. USD 28000. Completed **PI-** *Consultancy to Vet two DPRs on Solid Waste Management.* By Housing and Urban Development Department, Directorate of Urban Local Bodies, Ladakh. INR 218000 (plus taxes). Completed. **PI-** *Consultancy* for comprehensive environmental quality assessment during the manufacturing of Lead Acid batteries at Nunegundla Palle and Karakambadi Location, India. INR 1440000 (plus taxes). Completed
2019	**PI-** *Consultancy for Sustainable water habitats.* Funded by TERI. 12 months. INR 849600. Completed **PI-** *Consultancy for Scoring of Innovation and Best Practices under Swachh Survekshan 2019.* Funded by Karvy Data Management Service Limited. 1 month. INR 1082650. Completed
2018	**PI-** Research project “Transboundary water governance & role of institutions to enhance the capacities of marginalised community in Mahakali River Basin. 1 Year 3 months.

Collaborating partner CDES Tribhuvan University, Nepal. Funded by ICIMOD Nepal. USD 20000, Completed.

PI- *MDP on Gender, Equity and Water Management.* Funded by ICEWARM, Australia. 12 months. AUD 62200. Completed

Expert team member- *Uzbekistan: Energy efficiency in water utilities. Energy audit and Prefeasibility study for Namangan city Suvokova*. Funded by the World Bank. 6 months. USD 200000. Completed.

PI- *Preparation of an assessment report of 'Water Study higher Education Institutions in India'*. 3 months. Funded by ICIMOD. USD 5000. Completed.

2016 **Expert team member-** *Energy Efficiency Review of Dar Es Salaam City Water and Sewerage Services.* Funded by the World Bank and the Government of Tanzania. 9 months. USD 120000.Completed.

2015 **PI**- *Socio-ecological metabolism study for urban water planning: A case study of Delhi*. Funded by Enel Foundation through University of Toronto. 1 year. USD 21000. Completed

2014 **PI-** *Strengthening Water and Sanitation in Urban Settings.* Funded by USAID, 3 year, INR 4,25,00,000. Completed

PI- Institutionalising Department of Regional Water Studies at TERI University. Coca-Cola Foundation, Atlanta. USD 1.2 Million.

Advisor- *Understanding decentralised energy interventions and their success conditions in select countries of Asia-Pacific*. Funded by ProSPER.Net, Japan. 1 year. USD 12000

Advisor- Improving access to safe water using River Bed Filtration Technology.

2013 **PI-** India section, *Urban metabolism surveying of Delhi, Mumbai and Kolkata metropolitan areas.* Funded by University of Toronto. 6 months. USD 4500. Completed

PI- India section, *Understanding and quantifying the water-energy-carbon nexus for low carbon development in Asian Cities.* Funded by Asia Pacific Network. 2 years USD 70000. Completed

PI- South Asia Regional workshop on Integrated Water Resource Management. Funded by the World Bank. 3 months. USD 50000. Completed.

PI- Asia regional workshop for programme on LCA and LCCA of infrastructure projects. Funded by UNU Flores, 2013. USD 30000. Completed

2012 **Co-PI,** *Preparation of Medium Term Investment Plan (MTIP) and Pre-Feasibility Studies (PFS) for an Integrated Water Supply Distribution System in Greater Visakhapatnam, India.* Funded by CDIA. 1 year. INR 45,00,000

Co-PI, *Solar accelerated design for small-scale biogas digester*. Funded by UKEIRI. 2 year, GBP 40000

2011 **PI-** *Development of education benchmarking for revitalizing higher education for sustainable development.* Funded by Hokkaido University, Japan in collaboration with RMIT, Australia. 2 year USD 12000

PI- *Greening of Delhi Ridge*. Funded by ONGC under CSIR activity. 5 year. INR 8000000

2010 **PI-** *Bioenergy from Waste: Hydrogen and methane production*. Funded by DBT, GoI. 3 year. INR 950000 (BT/PR-11517/BCE/08/709/2008)

2009 **PI-** Online Pilot program on Sustainable development practices in public policy- leading to a Diploma Program. An activity of ProSPER.Net, Funded by Ministry of Environment, Japan. 3 year. USD 56000
Core Team member, Content generation for Postgraduate programs in Environmental Science, New Delhi: TERI University, Sponsored by MHRD, New Delhi.
PI- ITEC programme for mid-career professionals from developing countries, Funded by Ministry of External Affairs, GoI. INR 10 Lakhs. Completed

2007 **PI-** *Performance evaluation of rotating biological contactors for sewage treatment in tropical climatic conditions.* Funded by Federal Ministry for Education and Research, Germany and in collaboration with the University of Karlsruhe, Germany and IIT Delhi.

2002-2007 Coordinated numerous consultancy projects for adequacy assessment of effluent treatment plants in small-scale industries, Delhi. The projects were routed through Delhi Pollution Control Committee, Delhi. The total projects completed amounts to more than INR 10 Million.

1995 – 2000 **PI /Core team member in the following projects**:

- *Investigation on respirable particulates and trace elements with source identification in air environment of Korba.* Funded by Ministry of Coal, Government of India
- *Environmental Improvement and Sustainable Development of the Agra-Mathura-Ferozabad Trapezium in Uttar Pradesh.* Funded by Asian Development Bank, Manila. The aim of the project was to identify feasible intervention projects in thirteen components that will help in improving the overall environmental quality of the region. I was involved in conceptualizing the components related to solid waste management and industrial wastewater and sewage treatment.
- *Preparation of a dossier on environmental and safety impacts of Orimulsion.* Funded by MC BITOR, Venezuela. The project assessed the environmental and safety impacts of various fuels to be used for power generation in India.
- *Water quality transformations in distribution systems.* Funded by UNDP-World Bank Regional Water & Sanitation Group-South Asia.
- *Recent developments in anaerobic digestion technologies for energy recovery from industrial effluent and their applicability in Indian context.* Funded by New Energy and Industrial Technology Development Organization (NEDO), Japan.
- *Assessment of alternative environmentally sustainable sources of energy generation – A river basin study for India.* Funded by NEDO, Japan.
- *India Sustaining Development,* funded by *Ministry of Environment and Forests.*
- *An innovative bio-process for stabilization of and energy recovery from solid waste,* funded by *New Energy and Industrial Technology Development Organization (NEDO),* Japan. Two phase anaerobic treatment technology for digestion of municipal solid waste will be developed and tested on a pilot scale.
- *Area wide environmental quality management (AEQM) plan for Goa Iron ore mining belt*, funded by *Government of Goa,* India. The plan covered a period of 15 years (1997-2012).
- *Performance evaluation of sewage treatment plant and sludge bio-methanantion*, funded by *National Thermal Power Corporation Ltd. Vidyut Nagar STPP*.

- *Inter-fuel substitution*, funded by *Environmental Resources Management,* UK.
- *Managing Solid waste at Mauraya Sheraton Hotel and Towers, New Delhi*, funded by *Welcome Group Mauraya Sheraton Hotel and Towers, New Delhi.*
- *Anaerobic treatment of multi-process effluents from Nirula's hotel, NOIDA*, funded by *Nirula's Corner House*, New Delhi.
- *Air pollution study of an office building*, funded by *Pharpur Business Center*, New Delhi. Indoor air quality and pollution sources were studied and correlated with ambient air quality. Performance of air handling units were studied to explore the possibility to improve indoor air quality.
- *Waste Management at Asha Kiran Hospital*, funded by Asha Kiran Hospital, Orissa. A detailed management and engineering plan were suggested for wastewater and solid waste for the entire hospital campus.
- *Common Effluent Treatment Plant (CETP) for textile industries at Pali (Rajasthan)* funded by *Ministry of Environment and Forests,* India.

PUBLICATIONS

Total publications: 95 (including monographs, policy briefs, book chapters and conference proceedings).

Google Scholar: Citations > 5600, h-index 29; i10-index 42; Scopus H-Index ~ 22

(* means the corresponding author)

A. International

1. Bedi, C., **Kansal, A.*,** & Mukheibir, P. (2025). *SaRVO framework for urban water utilities: Building resilient, liveable, and sustainable cities*. Environmental Science & Policy, 171, 104135. https://doi.org/10.1016/j.envsci.2025.104135. **Elsevier. (IF: 5.2)**.

2. Rao, R., **Kansal A.,** Tarannum F., (2025). *Sustainability Assessment Index for Surface Water bodies for prioritising management interventions.* Jr Environment and Urbanisation ASIA 1-16. https://doi. 10.1177/09754253251337344. **Sage. (I.F: 1.8).**

3. Rao, R., **Kansal, A.,** Tarannum, F., (2024). *Role of stakeholders in sustainable management of an urban water body and wetland.* Jr Environment and Urbanisation ASIA. 15(1). doi.org/10.1177/09754253241236850**. Sage. (IF: 1.8).**

4. Bhargava, N., Bahadur, N., and **Kansal, A.,** (2023). *Techno-economic assessment of integrated photochemical AOPs for sustainable treatment of textile and dyeing wastewater*. Jr Water Process Engineering. 56, 104302. 11pg. doi.org/10.1016/j.jwpe.2023.104302. **Elsevier. (IF: 6.7)**.

5. Chaudhary, S., Chua, L.H.C., and **Kansal, A.,** (2022). *The uncertainty in stormwater quality modelling for temperate and tropical catchments.* Jr Hydrology 617, 128941.11pg. doi.org/10.1016/j.jhydrol.2022.128941. **Elsevier. (IF: 6.3)**.

6. Bedi, C., **Kansal, A.***, Mukheibir, P., (2022)**.** *A conceptual framework for the assessment of and*

transition to liveable, sustainable, and equitable cities. Jr. Environmental Science and Policy. 140, 134-145p. **Elsevier. (IF: 5.2)**.

7. Chaudhary S. Chua L.H.C. and **Kansal A.** (2022). E*vent mean concentration and first flush from residential catchments in different climate zones.* Jr. Water Research. 118594. doi.org/10.1016/j.watres.2022.118594. **Elsevier. (IF: 12.4)**.

8. Goel, S., **Kansal, A.*,** Stephan, P. (2021). *Sourcing Phosphorous for agriculture: Lifecycle assessment of three options for India.* Jr. Resources Conservation and Recycling.174, 105750. doi.org/10.1016/j.resconrec.2021.105750. **Elsevier. (IF: 10.9)**.

9. Chaudhary, S., Chua, L.H.C., and **Kansal, A.** (2021). Modelling washoff in temperate and tropical urban catchments. Jr Hydrology 603, 26951.11 pg. doi.org/10.1016/j.jhydrol. 2021.126951. **Elsevier. (IF: 6.3)**.

10. Nanda, M., **Kansal, A.***. (2021). *Pathways of sustainable Phosphorus loop in Germany: Key lessons from Stakeholders' perspectives.* Jr. Current Research in Environmental Sustainability. 3, 100062. doi.org/10.1016/j.crsust.2021.100062. **Elsevier. (IF: 3.8)**

11. Neha and **Kansal, A.*** (2022). Acceptability of reclaimed municipal wastewater in Cities: evidence from India's National Capital Region. 24 (1), 212-218. Doi:10.2166/wp.2021.197Jr Water Policy. IWA. **(IF: 1.8)**

12. Nanda, M., **Kansal, A.*,** Dana, C. (2020). *Managing vulnerability to phosphorus scarcity in agriculture through bottom-up assessments of regional-scale opportunities*. Jr. Agricultural Systems. 184. **Elsevier. (IF: 6.1).**

13. **Kansal A*,** Govindarajan, V. (2020). *Role of higher education in sustainability of water resources- an assessment of Institutions in India.* Water Policy 22. 276-292p. doi.org/10.2166/wp.2020.160. **(IF: 1.8)**.

14. Goel, S., **Kansal, A.*** (2020). *Phosphorous recovery from septic tank liquor: optimal conditions and effect of tapered velocity gradient.* Journal of Cleaner Production. 275. **Elsevier. (IF: 10)**

15. Sen, S. M., **Kansal, A.*** (2019). *Achieving Water Security in Rural Himalayas: a participatory account of challenges and potential solutions*. Journal of Environmental Management. 245. 398-408p. DOI: 10.1016/j.jenvman.2019.05.132 **Elsevier. (IF: 8.4)**

16. Sen, S. M., **Kansal, A.*** (2019). *Integrating value-chain approach with participatory multi-criteria analysis for sustainable planning of a niche crop in Indian Himalayas.* Journal of Mountain Science. 16(10). 2417-2434p. doi.org/10.1007s11629-019-5437-4. **Springer. (IF: 2.7)**

17. Nanda, M., Dana, C., **Kansal, A.*** (2019). *Assessing national vulnerability to scarcity of phosphorus to build food system resilience: The case of India*. Journal of Environmental Management 240. 511-517p. doi.org/10.1016/j.jenvman.2019.03.115 **Elsevier. (IF: 8.4)**

18. Ghosh, R., **Kansal, A**. (2019). *Anthropology of changing paradigms of urban water systems*. Journal Water History. 11(1-2), 59-73pp. doi.org/10.1007/s12685-019-00229-0. **Springer.**

19. Ghosh, R., **Kansal, A*.,** Govindarajan, V*. (2019). *Urban water security assessment using an integrated metabolism approach- a case study of the National Capital Territory of Delhi in India*. Jr Resources 62 (8). Doi:10.3390/resources8020062. **(IF: 4.4)**

20. Sen, S. M., Singh, A., Varma, N., Sharma, D., and **Kansal, A.*** (2019). *Analysing Social Networks to Examine the Changing Governance Structure of Spring sheds: A Case Study of Sikkim in the Indian Himalayas.* Journal of Environmental Management, 63 (2); 233-248p.DOI:10.1007/s00267-018-1128-0. **Springer. (IF: 3.5)**

21. Singh, P., and **Kansal A*.,** (2018). *Energy and GHG accounting for wastewater infrastructure.* Jr Resources, Conservation and Recycling. 128:499-507p. **Elsevier. (IF: 10.9)**

22. Deshmukh, C., et al., (2018*). Carbon dioxide emissions from the flat bottom and shallow Nam Theun 2 Reservoir: drawdown area as a neglected pathway to the atmosphere.* Jr **Biogeosciences** 15(6):1775-1794p. DOI 10.5194/bg-15-1775-2018 **(IF: 3.9)**

23. Tarannum, F., **Kansal, A.**, Sharma, P., (2018). *Understanding public perception, knowledge and behaviour for water quality management of the river Yamuna in India.* Jr. **Water Policy** (20). 266-281p. IWA. Doi 10.2166/wp.2018.134. **(IF: 1.8)**

24. Venkatesh, G., and **Kansal, A.**, (2018). *Industrial ecology tools as decision making aids for sustainable phosphorus recovery- a methodology paper.* Vatten- Journal of Water Management and Research 74:3, 107-121p.

25. Tarannum, F., **Kansal, A.**, & Sharma, P., (2018*). ICT for Public Participation in River Water Quality Management. The Journal of Development Communication, 29*(2). 76-89pp. http://jdc.journals.unisel.edu.my/ojs/index.php/jdc/article/view/82

26. Jasrotia, S., **Kansal, A.***, Mehra, A., (2017). *Performance of aquatic Plant species for phytoremediation of arsenic-contaminated water.* Applied Water Science; 7; 889-896p. DOI 10.1007/s13201-015-0300-4. **Springer (IF: 5.7)**

27. Sharma, D., **Kansal, A.,** and Pelletier, G., (2015). *Water quality modeling for urban reach of Yamuna River, India (1999-2009), using QUAL2Kw.* Applied Water Science. 7: 1535-1559p. DOI 10.1007/s13201-015-0311-1. **Springer (IF: 5.7)**

28. Srivastava, L., and **Kansal, A.,** (2017). *The need to ratchet.* In International cooperation *D+C, Germany.* 26-27p.

29. Ghosh, R., **Kansal, A*.,** Aghi, S., (2016). *Implications of end-use behavior in response to deficiencies in water supply and electricity consumption – A case study of Delhi*. Journal of Hydrology. 536:400-408p. **Elsevier. (IF: 6.3).**

30. Singh, P., **Kansal, A.*,** Marque, C.C., (2016). *Energy and carbon footprints of sewage treatment methods.* Jr of Environmental Management. 165:22-30p. **Elsevier**. **(IF: 8.4)**

31. Kennedy, C.A., et al. (2015). *Energy and Material flows of megacities*. PNAS. 112(19), 5985-5990p. National Academy of Sciences (USA). (**IF: 9.4**)

32. Jasrotia, S., **Kansal, A,*** and Kishore, V. V. N., (2014). *Arsenic phyco-remediation by Cladophora algae and measurement of organic speciation and location of active absorption site using electron microscopy.* Microchemical Journal. 114:197-202p. DOI 10.1016/j.microc.2014.01.005. **Elsevier. (IF: 5.1)**

33. Kumar, P., Pant, D., Mehariya, S., Sharma, R., **Kansal, A.,** Kalia, V.C., (2014). Ecobiotechnological strategy to enhance efficiency of bioconversion of waste into hydrogen and methane. Indian Journal of Microbiology. 54(3): **Springer (IF: 1.3)**

34. Ghosh, R., and **Kansal, A.*,** (2014). *Urban challenges in Indian and mission for sustainable habitat.*

Interdisciplina 2(2): 281-304p. DOI: 10.22201/ccich.24485705e.2014.2.46530.

35. Venkatesh G., Kurian, M., and **Kansal, A.** (2014). *Urgent need for lifecycle thinking in Infrastructure.* **Asian Water**, 30-32p.

36. Sharma, D., **Kansal, A.,** (2013). *Assessment of river quality models: a review*. Reviews in Environmental Science and Biotechnology Vol 12 (3): 285-311p. DOI: 10.1007/s11157-012-9285-8. **Springer. (IF: 14.4)**

37. Jasrotia, S., **Kansal, A.*,** Kishore, V.V.N., (2012). *Application of Solar Energy for water supply and sanitation in Arsenic affected rural areas: a study for Kaudikasa village*, India. Jr of Cleaner Production. Vol 37: 389-393p. **Elsevier. (IF: 10)**

38. Singh, P., Marque, C.C., **Kansal, A.***, (2012). *Energy pattern analysis of a wastewater treatment plant.* Jr Applied Water Science, Vol 2(3): 221-226p. **Springer. (IF: 5.7)**

39. Sharma, D., Gupta, R., Singh, R.K., and **Kansal, A.,** (2012). *Characteristics of the event mean concentration (EMCs) from rainfall runoff on mixed agricultural land use in the shoreline zone of the Yamuna River in Delhi, India.* Applied Water Science, 2(1):55-62p. **Springer. (IF: 5.7)**

40. **Kansal, A.,** Mishra, A., and Seth, R., (2012). *Capacity building for policy makers: The design and delivery of an e-learning program on sustainable development practices.* Rio +20 booklet of case studies published by ProSPER.Net, Japan. pp 24-27

41. **Kansal, A.,** Lah, T.J., Haraya, T., Senaha, E., (2012). *Alternative University Appraisal*. Rio +20 booklet of case studies published by ProSPER.Net, Japan. pp 36-39.

42. Kansal, A.*, Khare, M., and Sharma, C S., (2011). *Air quality modeling study to analyze the impact of the World Bank emission guidelines for thermal power plants in Delhi.* Atmospheric Pollution Research (2): 99-105. DOI:10.5094/APR.2011.012. **Elsevier. (IF: 3.5)**

43. Bateman, A., Horst, D.V,, Boardman, D**., Kansal, A.**, Marque, C.C., (2011). *Closing the phosphorus loop in England: The spatio-temporal balance of phosphorus capture from manure versus crop demand for fertilizer.* Jr. Resources, Conservation and Recycling 55: 1146-1153p. **Elsevier**. **(IF: 10.9)**

44. Sharma, D., **Kansal, A**., (2011). *Water quality analysis of river Yamuna using Water Quality Index in National Capital Territory India (2000-2009).* Jr. Applied Water Science, 1(3-4):147-157. **Springer. (IF: 5.7)**

45. **Kansal, A***, Khare, M., and Sharma, C.S., (2009). *Health benefits valuation of the World Bank emission guidelines for thermal power plants in Delhi, India.* Journal of Environmental Planning and Management, Vol 52, No.7, October 2009, 881-899p. DOI: 10.1080/09640560903180933. Routledge, **Taylor and Francis.(IF: 4.4)**

46. Paliwal, R., Sharma, P., and **Kansal, A.,** (2007). *Water quality modeling of the river Yamuna (India) using QUAL2E-UNCAS*. Journal of Environmental Management, 83(2):131 – 144. DOI: 10.1016/j.jenvman.2006.02.003. **Elsevier. (IF: 8.4)**

47. Kusum, L., **Kansal, A.,** Balakrishnan, M., Kishore, V. V. N., (2002). *Assessment of biomethanation potential of selected industrial organic effluents in India.* Journal of Resources, Conservation and Recycling, 35:147-161p. DOI: 10.1016/S0921-3449(01)00112-4. **Elsevier. (IF: 10.9)**

48. Prasad, R.K., Uma, R., **Kansal, A.,** Gupta, S., Kumar, P., Saksena, S., (2002). *Indoor air quality in an air-conditioned building in New Delhi & its relationship to ambient air quality.* Jr. Indoor and Built Environment 11(6): 334-339p. DOI: 10.1177/1420326X0201100605. **SAGE**Pub. **(IF: 3.6)**

49. Rajeshwari, K.V., Balakrishnan, M., **Kansal, A.,** Lata, K., Kishore, V. V. N., (2000). *State of the art of anaerobic digestion technology for industrial wastewater treatment.* Journal of Renewable and Sustainable Energy Reviews. 4(2):135 – 156p. DOI: 10.1016/S1364-0321(99)00014-3. **Elsevier**. **(IF: 16.799)**

50. Gupta, S., **Kansal, A.,** (1998). *Solid waste management in Indian cities: an analysis of success stories.* Warmer Bulletin No.60. Journal of the World Resource Foundation. 4-6.

51. Gupta, S., Mohan, K., Prasad, R., **Kansal, A.,** (1998). *Solid waste management in India: Options and opportunities.* Journal Resources, Conservation and Recycling, 24:137-154p. **Elsevier. (IF:10.9)**

B. Indian Journals

52. Satija P.K., Tarannum F., **Kansal A.** (2025). *Specific water consumption in chromite mining and ferrochrome alloy manufacturing- evidence from water audit for reduction strategies.* Indian Journal of Environmental Protection IJEP 45(6):546-554.

53. Neha and **Kansal A*.**, (2023). *What adolescents know and believe about reclaimed water and water security: A survey of school children in National Capital Region.* Jr. Indian Journal of Environment Protection. IJEP 43(3): 270-276. ISSN: 0253-7141.

54. Bedi C and **Kansal A***., (2022). *Advancing the understanding of liveability in the urban water management system using 'pro-equity' lens.* Jr. Environmental Science and Engineering. JESE, Vol 64(1): 1402-1412.

55. Rao. R., Kansal A, Tarannum F., (2022). *Building resilience to climate change disasters through community-based preservation of waterbodies and wetlands.* Jr. Environmental Science and Engineering. JESE, Vol 64(1): 1428-1437.

56. Schults, M., **Kansal, A.,** (2015). *North-South perspectives on stakeholder structure governing ambient air quality- a case of Germany and India.* Jr Environmental Science and Engineering. NEERI, Vol 57 (2); 160-171.

57. Goyal, R.R., Mohan, K.M., **Kansal, A.,** (2003). *Treatment of dyeing and printing effluent using photo assisted Fenton reaction.* Nature Environment and Pollution Tech, 2(2):179-182.

58. **Kansal A.** (2002). *Solid Waste management Strategies for India.* Indian Journal of Environmental Protection, 22(4): 444-448. **(IF:0.137)**

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C. Policy Brief

65. Sarangi G. K., Seth R., **Kansal A.** et al. (2017). Working Paper Decentralized Renewable Energy Systems in China, India and Thailand: Assessing the role of Policies and Incentive Structures. ProsPER.Net., Japan. 20p.

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D. Book chapters

67. Chaudhuri R. R, Sharma P and **Kansal A** (2021). Reducing the water footprint of mega cities in Asia: Addressing water reuse and groundwater recharge (case study of Delhi, India). In Ed. Sridhar K S and Mavrotas G. – Urbanisation in Global South: Perspectives and Challenges. Routledge. Taylor and Francis Group 167-183pp. DOI:10.4324/9781003093282. ISBN9: 781003093282.

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71. Mahapatra I, Ghosh R and **Kansal A** (2014). Predicament of planning for a sustainable and low carbon city in 21st Century. In Ed Singh S. Cities- The 21st Century India. Published by Bookwell. PP 409-428.

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73. Sharma D, and **Kansal A.** (2013). *Sustainable City: A case study of storm water management in economically developed urban catchments.* In: Zongwei Luo., Mechanism design for sustainability: techniques and cases, pp 243-264. Springers.

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. E. Book/Monographs

79. **Kansal A** (2017). State of Urban water and sanitation in India. TERI University. 148p.

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F. Conference proceedings

83. Goel, A. and **Kansal, A.,** (2020). *Evaluation of Phosphorous recovery from decentralized sewage treatment systems.* Full paper presented in conference proceedings in International conference on Science, Engineering and Technological innovation (ICSETI 2020) 24-25 October, 2020, organized by ACST Department Kryvyi Rih National University, Ukraine and Research culture Society.ISSN: 2455-0620 Issue 19, pg 23-27.

84. Sen, S.M. and **Kansal, A.,** (2018). *Using problem and solution tree (PAST) to identify options for water security in Indian Himalayas.* Full paper presented and abstract publication in conference proceeding at 2018 International Workshop for Young Scientists of the Hindu Kush Himalaya co-organized by the University of Chinese Academy of Sciences (UCAS), The Institute of Mountain Hazards and Environments Chinese Academy of Sciences (IMHE), the Himalayan University Consortium (HUC), and International Centre for Integrated Mountain Development (ICIMOD), as a session of the Belt and Road Forum, CAS, Beijing, China, 5-6 November 2018.

85. Sen, S.M. and **Kansal, A.,** (2017). *Understanding the challenges of local water security and its impact on agricultural livelihoods in the Indian Himalayan Region – A case study of Sikkim, India.* Full paper presented and abstract publication in conference proceeding at HUC International Conference & Annual Meet 2017-Chengdu, China, 29 Oct – 1 Nov, 2017.

86. **Kansal, A**., (2017). *Water metabolism and hydrological indicators for Sustainability assessment.* In International conference on Mountain Resources and Livelihoods in the Hindu Kush Himalayan region: Higher education Research and Regional Collaboration for Sustainable Mountain Development, Oct 29-31, Chengdu, China.
87. Ghosh, R., **Kansal, A.,** (2016). Water Energy Nexus in water supply and end-use water infrastructure: a case of Delhi. Proceedings of national Seminar on Innovative Green technologies for sustainable Sanitation, health and Environment, April 22, 2016. Poornima College of Engineering, Jaipur.

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89. Rao G R N, Gopal E N, **Kansal A**, Sharma K V. (2013). *Study of optimization algorithms for energy efficiency in municipal water supply: developing countries.* Proceedings of 4th International conference on advances in energy research. Department of energy science and engineering IIT Bombay, 10-12 Dec 2013, Mumbai, India.

90. Jasrotia S., **Kansal A**, Kishore VVN (2012). *Renewable energy application for sustainable water supply and sanitation in rural areas.* In Conference proceeding ed. Mishra J. and Subramaniam N. Deakin University and Amrita Vishwa Vidyapeetham University, December 2012, pp: 2-11.

91. Tarannum F and **Kansal A** (2012). *Role of community perception analysis for sustainable water quality management- A review.* In Conference proceeding ed. Mishra J. and Subramaniam N. Deakin University and Amrita Vishwa Vidyapeetham University, December 2012, pp: 12-30.

92. Sharma D, and **Kansal A.** (2010) *Assessment of diffused water pollution load from an urban catchment in India.* 7th International conference on sustainable techniques & strategies in Urban Water Management. Novatech 2010, Lyon France, June 27-July 1, 2010.

93. Sharma D, and **Kansal A.** (2009). *Heavy metal pollution in groundwater near a landfill site: a case study of National Capital Territory, India.* Conference- Biovision, Lyon France, March 8-11, 2009.

94. Kanhe N M, **Kansal** A, Gupta R, Bhole A G. (2000). *Biogas generation potential in India through anaerobic digestion of agro-based industrial wastewater- a step towards Environmental reclaimanation.* International Symposium on environmental reclamation 13rganized by Shri R K N Engineering College. Nagpur in November 20-22, 99-104.

95. Noronha M L, Sridharan P V, Sinha S, Sreekesh S, Sharma N, **Kansal A,** Banerjee S P, and Kaul O N. (1998). *Area-wide environmental quality management (AEQM): A Case Study of iron Ore Mining in Goa.* In Mega Event on 'Indian Mineral Industry a Perspective'. 6-8 August 1998. Organized by Ministry of Steel and Mines, Department of Mines, Nagpur.

PhD. Supervision

Supervised and Awarded- 16

As the Main Supervisor- 14 (another 2 in the final evaluation stage)

1. Ritu Rao 2025. Water bodies sustainability assessment framework and tool – Case of an urban lake. Co-Supervision by Dr Fawzia Tarannum.
2. Chandni Bedi 2025. Enhancing liveability through participatory governance and sustainable urban water management—a novel SaRVO approach in the city of Gurugram. Co-supervision by Dr Pierrie Mukhebir, UTS, Australia.
3. Nipun Bhargava 2024. Photocatalytic oxidation for Sustainable management of textile and dyeing industry wastewater. Co-supervision by Dr Nupur Bahadur, TERI.
4. Neha 2022. Assessment of reclaimed municipal wastewater use acceptance by urban residents for water sustainability: evidence from NCR, India.
5. Snigdha Goel, 2021. Assessment of decentralized sewage treatment systems as a Phosphorus supply option for agriculture.
6. Sudeshna Mayasen, 2019. Sustainable planning of a niche crop system in Indian Himalayas using value chain approach – A study of the large cardamom spice from Sikkim Himalayas.
7. Madhuri Nanda, 2019. Analyzing India's vulnerability to global phosphorus scarcity. Co-supervision by Dr Dana Cordell, UTS, Australia.
8. Fawzia Tarannum, 2018. Analysis of public perception of water quality and role of ICT in supporting participative management – A study along River Yamuna in Northern India.
9. Dinesh Chander Pant, 2018. Bacterial and thermal pre-treatment of organic waste to maximise biogas yield and estimation of air emission from digestate. Co-Supervision by Prof V V N Kishore
10. Ruchira Ghosh, 2017. Reinvigorating urban water planning using metabolism approach: Delhi a case study.
11. Pratima Singh, 2016. Energy use and GHG emission analysis of urban wastewater infrastructure and scoping for use of renewable energy resources.
12. Shivakshi Jasrotia, 2015. Studies on a decentralized, solar energy-based water supply and sanitation system for Arsenic affected rural areas. Co-Supervision by Prof V V N Kishore
13. Deepshikha Sharma, 2013. Evaluation of river water quality restoration plan and intervention analysis using water quality modelling with focus on the river Yamuna, Delhi (India). Co-Supervision by Dr R K Singh.
14. Chandra Shekhar Deshmukh, 2013. Greenhouse gas emissions (CH_4, CO_2, N_2O) from a newly flooded hydroelectric reservoir in subtropical South Asia: The case of Nam Theun 2 Reservoir, Lao PDR. Co-Supervisors: Dr Dominique Serca, Dr Frederic Guerin, and Dr Pradeep Dadhich.

As Co-Supervisor- 2

15. Arun Rana, 2013. Climate change effects on rainfall and management of urban flooding. Student registered with Lund University, Sweden.
16. Shagun 2023. Urban Stormwater quality modelling of residential catchments located in different climatic zones. Student registered with Deakin University, Australia

INVITED LECTURES (SELECTED FEW)

1. **Kansal A, 2022.** Invited speaker- Human water relationship along temporal gradient. International Conference SuJalam, organized by Deendayal Research institute Dec 27-29, Ujjain, India.
2. **Kansal A, 2021.** Invited panel speaker- Synergies and trade-offs of SDGs and climate actions in the light of Covid-19 October 22, International Webinar on Sustainability in Higher Education, organized by UNU-IAS, Japan.
3. **Kansal A, 2021.** Invited speaker-*Water sustainability assessment tools for urban areas*. Dated Feb 17, 2021 in DST sponsored Advance Training Programme on Water Resources Management and Climate Change Studies; hosted by Sikkim University.
4. **Kansal A.** (2019). Invited speaker- *Metabolism approach for sustainable cities.* Fourth International Conference on Sustainable Energy and Environmental Challenges.27-29 November 2019. NEERI Nagpur.
5. **Kansal A.** (2019). Panel Speaker- Education and Learning in and through Environment Assessment: Experiences from Higher Education Institutions in Asia. In 10th World Environmental Education Congress, Nov 3-7, 2019, Bangkok, Thailand. Organized by UNESCO.
6. **Kansal A.** (2019). Panel speaker Energy, Water, and Sanitation at National conference on Transforming Rural India 2030: Strategies for Sustainable Development Goals. January 18. Symbiosis International, Pune
7. **Kansal A.** (2018). Keynote speaker in conference on Water-Energy nexus at Italy November 14-17. *Metabolism approach for food water-energy nexus and problem of shift.*
8. **Kansal A.** (2018). Panel speaker in *Water and Science for sustainable future*. 19 June, Dushambe, Tajikistan.
9. **Kansal A.** (2017). Keynote speaker in various workshops organized by IIT Delhi, IIPA, HIPA SPA.
10. **Kansal A**. (2015). E-learning programme for mid-career bureaucrats. Asian Development Bank, Manila.
11. **Kansal A**. (2014). Urbanization and Climate change. Tongji University, China.
12. **Kansal A.** (2015). Safe water and sustainable sanitation for underserved communities in urban India. IIT Delhi.
13. **Kansal A.** (2015). Energy considerations in water infrastructure planning. AWWA.
14. **Kansal A.** (2012). Water-Energy-Carbon Nexus in Delhi: Key indicators, drivers, and implications. International Workshop on Water-Energy-Carbon nexus, March 1-2, 2012, Tokyo, Japan.
15. **Kansal A.** (2012). "Advances in biomethanation of solid waste and its potential for developing countries. Organized by Environment Research Institute, Center for Management Development 27-28 April 2012, University of Petroleum and Energy Studies, Dehradun, India.
16. **Kansal A.** (2011) Keynote lecture at the 8th International Energy Conference, 24-25 May 2011, IRIB International Conference Centre, Tehran, Iran.
17. **Kansal A,** (2009) Evaluating efficacy and viability of environmental policy intervention – a study for thermal power plants. International conference on green management in a warming World. Organised by The Climate Conclave and Eco Group- SCMS- Cochin.

COMMITTEES SERVED

- Member of the core group by the National Disaster Management Authority (NDMA) for technical reports on the provision of safe drinking water during emergencies
- Member of the project review committee constituted by MoEFCC for the project entitled “Environmentally friendly technology in the highly polluting small-scale glass industry at Firozabad”
- Member of the expert committee to evaluate Ford Foundation Fellowship applications.
- Member of the expert committee constituted by MoEFCC, for review of the ‘Common effluent treatment scheme’
- Member of the NAAC peer team
- Member of the Working Group by UGC on ‘Eco-friendly and sustainable campus development’.

Annexure I

LIST OF INTERNATIONAL VISITS

List of international academic visits during past 15 years

S. No.	Duration	Place	Purpose
1.	Feb 8-16, 2009	Berlin, Germany	Renac Fellow for Training programme on renewable energy for decision makers
2.	Aug 25-29, 2009	Yokohama, Japan	Participate in UNU-Japan meeting
3.	Nov 21-25, 2009	Penang, Malaysia	Participate in Project and Board meeting by UNU at University Sains Malaysia
4.	Mar 13-19, 2010	Tokyo, Japan	Participate in project meetings at Tokyo University
5.	July 4-11, 2010	Shanghai, China	Participate in project meeting at Tongji University
6.	Nov 7-16, 2010	Sapporo, Japan	Participate in project meeting at Hokkaido University
7.	Oct 7- Feb 16, 210-11	Berlin, Germany	ICCR Chair Professor to Freie University, Germany
8.	May 23-26, 2011	Tehran, Iran	Keynote speaker in conference
9.	July 10-17, 2011	Bhusan, Korea	IPCC Lead Author meeting
10.	Nov 4-11, 2011	Oslo, Norway	Participate in project meeting
11.	Dec 13-15, 2011	Melbourne, Australia	Participate in project meeting at RMIT University
12.	Mar 1-3, 2012	Tokyo, Japan	Paper presentation in conference by Global Carbon Project
13.	Mar 18-25, 2012	Wellington, New Zealand	IPCC Lead Author meeting
14.	Apr 20-25, 2012	Bangkok, Thailand	Participate in project meet at AIT
15.	Jun 10-23, 2012	Birmingham, UK	Visit to Birmingham, Derby and UK Open Universities
16.	Aug 7-10, 2012	Washington DC, USA	IPCC meeting
17.	Oct 15-21, 2012	Belfast, Ireland	UKIERI project
18.	Nov 4-11, 2012	Vigo, Spain	IPCC Lead Author Meeting
19.	Dec 12-16, 2012	Tokyo, Japan	UNU board meeting
20.	Jul 1-5, 2013	Addis Ababa, Ethiopia	IPCC Lead Author Meeting
21.	Sep 8-12, 2013	Bangkok, Thailand	Project meeting at AIT
22.	Sep 20-29, 2013	Sydney, Australia	KTP visiting fellow at UTS, Australia
23.	Nov 15-18, 2013	Kathmandu, Nepal	Participate in meeting by IUCN on transboundary water governance
24.	Mar 11-17, 2014	Belfast, Ireland	UKIERI project
25.	Jun 15-20, 2014	Bangkok, Thailand	Resource Person in a training programme at AIT
26.	Jul 8-13, 2014	Tokyo, Japan	Project meeting at UNU
27.	Jul 15-17, 2014	Bangkok, Thailand	UNU Board Meeting at AIT
28.	Sep 27-29, 2014	Bangkok, Thailand	Participate in meeting by IUCN on transboundary water governance

29.	Jul 18-21, 2015	Manila, Philippines	Presentation at ADB
30.	Jun 5-12, 2016	Dar Es Salam, Tanzania, Africa	On project funded by the World Bank
31.	Sep 23-27, 2017	Shanghai, China	Resource person in a training programme at Tongji University
32.	Oct 13-16, 2017	Kathmandu, Nepal	Project meeting at Tribhuvan University
33.	Oct 28-Nov 2, 2017	Chengdu, China	Paper presentation and participate in governing body meeting of HUC-ICIMOD
34.	Jan 27-29, 2018	Bangkok, Thailand	Participate in workshop by IUCN
35.	Feb 16-20, 2018	Thimphu, Bhutan	Participate in project meeting
36.	Jun 5-9, 2018	Kunming, China	Lead HUC Water group meeting at Yunnan University
37.	Jun 18-25, 2018	Dushanbe, Tajikistan	Paper presentation in Water conference
38.	Sep 9-15, 2018	Namangan, Uzbekistan	Work on project by the World Bank
39.	Sep 26-30, 2018	New York, USA	Participate in water group meeting on sidelines of UN summit.
40.	Nov 11-15, 2018	Salerno, Italy	Keynote speaker in conference of Food, water, energy nexus.
41.	Jun 18-23, 2019	Punakha, Bhutan	Invited as expert for HUC-ICIMOD consultative meeting on Sustainable Mountain Education and strategy paper on thematic working groups.
42.	Nov. 3-5, 2019	Bangkok, Thailand	UNESCO conference on ESD in Higher Education
43.	Dec 5-8, 2019	Kathmandu, Nepal	Lead in ICIMOD-HUC meeting on water thematic group strategy paper
44.	Feb 17-26, 2020	Kathmandu, Nepal	Lead in ICIMOD-HUC meeting on water thematic group strategy paper
45	Jul, 23-27, 2023	Kathmandu, Nepal	APN project meeting
46	Jun 2024	Graz, Austria	Teaching Mobility exchange Erasmus+ program