

## Avinash Yadhav Kumar

Sr. Fellow, SACIWaters<sup>1</sup>  
Independent Urban & Regional Planning Consultant  
Partner, Vivir Consultancy  
Technical Consultant, Cube Bio Energy Private Ltd

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Telangana

## Education

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| 2011 | <b>M. Plan - Urban &amp; Regional Planning</b> , C.E.P.T. University at Ahmedabad  |
| 2009 | <b>Bachelor of Planning</b> , School of Planning and Architecture, Jawaharlal Nehru Architecture and Fine Arts University at Hyderabad |

## Memberships

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| 2014 | <b>Associate Member:</b> Institute of Town Planners, India (ITPI) |
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## Honors

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| 2012 | <b>Distinguished Student Award</b> for best All Round Student at CEPT University for batch of <b>2009-11</b>  |
| 2020 | <b>Fellowship of the International Sustainability Academy (ISA) for 2020-21</b><br>Amongst 9 candidates selected by ISA for fellowship funded by BMZ <sup>2</sup> to strengthen international cooperation in implementing SDGs <sup>3</sup> .   |
| 2020 | <b>Featured in the "Compendium of WASH Innovations in India" published by the National Institute of Urban Affairs (NIUA) in association with USAID<sup>4</sup></b><br>A business concept submitted by my start-up Vivir Consultancy for the IHUWASH Accelerator Program was featured in the "Compendium of Water, Sanitation and Hygiene (WASH) Innovations in India". The publication was released on UN Habitat World Day on 4 <sup>th</sup> Oct 2019 by Shri. Hardeep Singh Puri (Hon. Minister of MoHUA). |

## Other Trainings

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| 2017 | Advanced Training course on Integrated Solid Waste Management by Center for Science & Environment   |
| 2017 | Attended Trainer course on delivering effective WASH trainings, by Centre for Affordable Water and Sanitation Technology (CAWST)                                      |
| 2014 | (Decentralized Wastewater Treatment Systems) Engineers Training Course  |
| 2014 | Training course on "Design of Simplified Sewer Systems"   |
| 2014 | Attended GIZ's (Deutsche Gesellschaft für Internationale Zusammenarbeit) CSP (City Sanitation Plan) Training of Trainers Workshop (organized in association with CSE) |
| 2011 | Basic Training Course in "Remote Sensing, Geographic Information System and Global Positioning System" conducted by Indian Institute of Remote Sensing                |

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<sup>1</sup> SACIWaters – South Asia Consortium for Interdisciplinary Water Resources Studies

<sup>2</sup> BMZ – Federal Ministry for Economic Cooperation and Development

<sup>3</sup> SDG – Sustainable Development Goals

<sup>4</sup> USAID – United States Aid for International Development

## Teaching Experience

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- Jun 2016 to Sep 2016 **Visiting Faculty, Public Policy Program at National Law School of India University, Bangalore, India**  
Courses Delivered: Seminar Course on Sustainable Cities
- Sep 2012 to June 2013 **Visiting Faculty, School of Planning & Architecture, Jawaharlal Nehru Architecture and Fine Arts University, Hyderabad, India**  
Courses Delivered: Planning Legislation (for graduate and undergraduate students), and Urban Economics & Sociology (for undergraduate students)

## Consulting Experience

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- July 2021 to Present **Senior Research Fellow, South Asia Consortium for Interdisciplinary Water Resources Studies (SACIWaters), Hyderabad, India**  
In this role, I will be looking to bring my knowledge from the fields of urban planning (and policy) in general and sanitation specifically to partner with the experienced fraternity at SACIWaters to work on critical policy issues of water resources management in South Asia. In this role I will work on a combination of consulting and research portfolios to build knowledge within the domain of studying water resources.
- March 2021 to Present **Technical Consultant, Co-Editing and Development of Student Handbook for WASH Institute under the provisions of a USAID Program**  
I will be developing and editing a student handbook – for the team at WASH Institute – alongside curating content for two academic courses (1. Water and Wastewater Management & 2. Non-sewered Sanitation), which are to be rolled out by the Institute.
- Sep 2020 to Dec 2020 **Fellowship of the International Sustainability Academy for 2020-21**  
Selected by the International Sustainability Academy (ISA) for its 2020-21 fellowship to support and strengthen international cooperation in the implementation of Sustainable Development Goals (SDGs). For the same, will work on a project to develop an urban policy framework for reuse of solid and liquid waste in the cities of Andhra Pradesh.
- June 2020 to Present **Advisory support to GIWA<sup>5</sup> to develop a technology compendium for sustainable sanitation solutions** (project commissioned to Vivir Consultancy)
- Dec 2019 to Aug 2020 **Advisory support to WaterAID India** (project commissioned to Vivir Consultancy)  
Rural FSM Scoping Study in Chittoor district of Andhra Pradesh
- Sep 2020 to Nov 2020 **Technical assistance to Mr. Brijgopal Ladda for a sub-contracted Asian Development Bank project**  
Technical Assistance – To document case studies on best practices in Solid Waste Management across India
- Feb 2020 to Aug 2020 **Consultant, Partnering a Technical Assistance to Mr. Rajesh Pai for a sub-contracted World Bank project**  
Technical Assessment - Exploring Greywater Management Strategies for the State of Tamil Nadu
- Nov 2019 to Apr 2020 **Consultant, BORDA Solutions GmbH, Bremen, Germany**  
Expert Paper on the Water and Sanitation Sector

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<sup>5</sup> GIWA – Global Interfaith WASH Alliance

- Jan 2019 to Present  
**Technical Consultant, Cube Bio Energy Private Limited, Hyderabad, India**  
Ongoing: I engage with the firm's leadership to support on matters of business development and technical assistance for solid waste management projects across India. This includes support on the development of technical marketing materials, development of technical and financial proposals (e.g. RFP responses and tender submissions) as well as providing liaisoning support between the firm and its private and government collaborators.
- April 2019 to Present  
**Consultant – Sr. Urban Planner, Bremen Overseas Research and Development Association - West Asia (BORDA-WesCA), Afghanistan & Jordan**  
Projects Delivered: Served as Sr. Urban Planner on the sanitation planning component of the Afghanistan Urban Water & Sanitation Program, a \$ 48 million grant funded by USAID. Our project scope was to develop Sanitation Plans for the cities of Kabul, Herat, Jalalabad, Mazar e Sharif, Kandahar and Kunduz.
- Sep 2018 to Dec 2018  
**Short Term Expert, Bremen Overseas Research and Development Association (BORDA), South Asia, Bangalore**  
Projects Delivered: Smart Waste Management & Resource Recovery: Feasibility study and develop preliminary design concept for resource recovery from 3 STPs in Pune.
- Sep 2018 to Feb 2019  
**Advisor to oversee Student Internship Project to Review Environmental Planning Toolbox conceptualized by Vivir Consultancy (my start-up), Berkeley, California**  
Projects Delivered: A report with findings from the review and market research of Vivir and other environmental planning toolboxes was submitted by the students to Vivir
- Jul 2018 to Jan 2019  
**Consultant, Center for Advanced Sanitation Solutions, Consortium for DEWATS Dissemination (CDD) Society, Bangalore, India**  
Projects Delivered: Advisory services for Knowledge Management, Content Development Support, Training Delivery, Proposal Writing, Marketing and Communication Support
- Feb 2017 to June 2018  
**Team Leader, Citywide Sanitation Planning Unit, CDD Society, Bangalore, India**  
Projects Delivered:
  - City Sanitation Plan Development at Qalai Sultan, Kabul, Afghanistan
  - Solid waste management plan for Devanahalli city, Bangalore Urban region
  - Fecal Sludge Management (FSM) Feasibility Study and Engineering Design for Kabul, Afghanistan; funded by GIZ
  - Preparation of City Sanitation Plans for 4 cities of Odisha supported by NIUA
  - Supporting in City Sanitation Plan development (for 6 cities of A.P. & Telengana) funded by GIZ
  - Consultancy Services for Sanitation and Solid Waste Management (for 4 Coastal Towns in Bangladesh) funded by Asian Development Bank
  - Preparation of 3 City Sanitation Plans for the towns of Hamirpur, Mandi and Nahan in the state of Himachal Pradesh; funded by European Union
  - Support to CSTEP for validation of the Sanitation Technology Choice Tool; funded by BMGF
- Jan 2015 to Jan 2016  
**Project Manager, BORDA - South Asia, Bangladesh, India**  
Projects Delivered: Sanitation Action Plan and Technology Demonstration(s) for 31 Municipalities in Bangladesh, funded by Asian Development Bank
- Aug 2013 to Dec 2014  
**Urban Planner, Citywide Sanitation Planning Unit CDD Society, Bangalore, India**  
Projects Delivered: Waste water Management Plan for the town of Ambajogai

- June 2012 to Aug 2013 **Project Associate, Center for Research Development and Consultancy, CEPT University, Ahmedabad**  
Projects Delivered: Preparation of a Revised CDP<sup>6</sup> for the city of Visakhapatnam; Inclusive heritage linked city development Programme (IHCDP); World Bank Funded
- June 2011 to Nov 2012 **Senior Research Associate, Administrative Staff College of India, State JNNURM PMU, Thiruvananthapuram, Kerala**  
Projects Delivered: Preparation of City Sanitation Plans for 25 cities of Kerala

## Internships

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- May 2010 to Jul 2010 **Master's Internship, Bus Rapid Transit System Cell, CEPT University**  
Assignment: 'Integrated Mobility plan for Ahmadabad'. Was involved in conducting transportation surveys
- Dec 2008 to Jul 2009 **Trainee Planner, CEPT University**  
Assignment: Preparation of Hyderabad Metropolitan Region Master Plan. Developing 'Development Control Regulations'; Socio-economic profiling of project regions, transport surveys and documentation (report writing and preparing presentations).
- Oct 2008 to Nov 2009 **Kshetra Consultancy, Trainee Planner**  
Field Level Survey and documentation of socio-economic, parking, architectural, and photographic data to analyze and plan for the pedestrianization of Charminar area. (as part of the Charminar Pedestrianization Project)
- Jul 2008 to Sep 2008 **Intern, The Indian National Trust for Art and Cultural Heritage (INTACH)**  
On-site surveying & documentation of heritage structures and their significance.

## Publications – Articles, Papers & Book Chapters

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1. Kumar, A. Y., Edathoot, A., & Schmidt, A. (2020). **An Assessment of the Water & Sanitation Sector - An expert paper on approaches to achieving SDG 6**. Bremen: BORDA.
2. Kumar, A. Y., Patil, D., Devangan, K. K., Satish, S., & Paravanethu, L. (2021 - Under Review). **Resource Book on Technologies for Solid Waste Management, Faecal Sludge Management and Wastewater Management**. Rishikesh: GIWA.
3. Susmita, S., Devangan, K. K., & Kumar, A. Y. (2017). **Assessment of Resource Recovery & its Business Potential from Sewage Treatment in Pune - A market research**. Bremen. BORDA.
4. Sajith, S., & Kumar, A. Y. (2018). **Evaluating Municipal Solid Waste Management in Indian Cities: A Comparative Assessment of Three Metros in South India. In Sustainable Urbanization in India - Challenges and Opportunities (pp. 137 - 160)**. Singapore: Springer.
5. Bhaumik, S., & Kumar, Y. A. (2014, August). **India's Sanitation Story**. Pragati (An online Journal)- <http://pragati.nationalinterest.in>. Retrieved from <http://pragati.nationalinterest.in/2014/08/indias-sanitation-story/>
6. Ginoya, N., Knappe, J., Kumar, A. Y., & K.N.V., S. (2014). **Linking Sanitation & Climate Change - Evaluating the climate variability impacts on sanitation**. Bangalore: ICCO.
7. Kramer, P., & Kumar, A. Y. (2013). **Developing Citywide Planning Instruments for Decentralized Urban Sanitation Services**. IWA. Bangalore: CDD Society.
8. Kumar, A. Y. (2016). **Case Study 1: Faecal Sludge Management in Lakshimpur, Bangladesh**. In S. Dasgupta, R. Murali, N. George, & D. Kapur, Faecal Waste Management in Smaller Cities across South Asia: Getting Right the Policy and Practice (pp. 39 - 40). Delhi: Centre for Policy & Research.
9. Kumar, A. Y., & Bhaumik, S. (2015). **Institutional landscape assessment of rural sanitation sector in India. Bangalore**: Indian Institute of Management, Bangalore.
10. Kumar, A. Y., & Kraleti, S. (2013). **Using Institutional Mapping as a tool to assess climate vulnerability with respect to capacities of urban local bodies**. Colloquium by PAC<sup>7</sup>, Bangalore

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<sup>6</sup> CDP – City Development Plan

## Publications – Posters & Presentations Submitted

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1. Kumar, A. Y., & Sharma, D. (2020). **Infrastructure Implementation in the Water & Sanitation Sectors: Gears of Implementation and making the Key Drivers work.** Poster presented at 6th Intl. Symposium on Knowledge & Capacity Development for the Water Sector. Delft: IHE Delft.
2. Kumar, A. Y., Kraleti, S., & N.V., S. K. (2020). **Storytelling as a tool for the development sector.** Poster Presented at the InkWASH Summit 2020. Hyderabad: ASCI.
3. Kumar, A. Y., Paravanethu, L., Devangan, K. K., Patil, D., & Satish, S. (2020). **SATTVA: A waste aggregation and processing ecosystem.** Poster Presented at the InkWASH Summit 2020. Poster Presented at the InkWASH Summit 2020. Hyderabad: ASCI.
4. Kumar, A., & Sharma, D. (2020). **What can sanitation infrastructure planning aim to do better?** Conference presentation at Annual Research on Cities Summit - 8th Feb 2020. Bhubaneswar: School of Human Settlements - Xavier University.

## Languages

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English: Full Professional Proficiency; Speaking, Reading, Writing

Hindi: Full Professional Proficiency; Speaking, Reading, Writing

Malayalam: Native or bilingual proficiency; Speaking, Reading, Writing

Telugu: Elementary proficiency; Only Speaking

## Invited Talks

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| @ CEPT University, Dates soon to be announced at Ahmedabad, 2020-21  | Online Training Program on Sustainable Urban Infrastructure  |
| @ Bill and Melinda Gates Foundation (BMGF), Seattle, United States 5 <sup>th</sup> -7 <sup>th</sup> July 2017        | Seminars and Discussions on Citywide Fecal Sludge Management (FSM) Planning Toolbox Workshop   |
| @ BMGF South Asia Partners Meet, Dakar, Senegal, 14-18 <sup>th</sup> Nov 2016  | Seminars and Discussions on Theory of Change, Sanitation Program Strategy, Review of Implementation Methodologies & Case Studies   |
| @ School of Planning, CEPT University, Ahmadabad 12 <sup>th</sup> April 2016   | Developing City Wide Planning Instruments for Decentralized Urban Sanitation Services (Student Workshop on Advancement of Decentralized Sanitation)  |
| @ Organized by WRI <sup>8</sup> and ICRIER <sup>9</sup> 5 <sup>th</sup> - 7 <sup>th</sup> April 2016                 | Discussion <sup>10</sup> on Business as Usual Urbanization titled “Economics of Service Provision” 4th annual conference, CONNECTKaro 2016 at the India Habitat Center, Magnolia Hall, New Delhi |
| @ Asian Institute of Technology, Pathumthani, Thailand, 20 <sup>th</sup> -22 <sup>nd</sup> January 2016              | In depth Validation and Testing of AIT’s Citywide FSM Tool box   |
| @ Centre for Study of Science, Technology and Policy, Bangalore 26 <sup>th</sup> November 2015                       | Fecal Sludge Management – Information Needs from Key Players (Validation of content, functionality and the user experience of Integrated Urban Sanitation Decision Support tool)                 |
| @ Indian Institute of Human Settlements, Bangalore City Campus, 31 <sup>st</sup> July to 1 <sup>st</sup> August 2014 | Urban Policy Dialogues – Round table discussion on the Policy Themes associated with ‘Water and Sanitation Sector’   |

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<sup>7</sup> PAC – Public Affairs Center, Bangalore

<sup>8</sup> WRI – World Resources Institute

<sup>9</sup> ICRIER - Indian Council for Research on International Economic Relations

<sup>10</sup> Participant at round table session to speak about my work on decentralized water and wastewater management practices that have been implemented, and share insights on the financing of wastewater treatment and overall service provision

@ National Law School University of  
India, Bangalore, 28th July 2014

Comparative urbanism as a method in urban policy studies - A  
seminar conducted at NLSIU jointly with researcher Ms. Heidi Bergsli  
from Norwegian Institute of Urban and Regional Research (NIBR)

@ CSIT, Hyderabad  
2<sup>nd</sup> January 2013

An orientation workshop on Heritage Demonstration in cities - in  
association with Ar. Sanjay Torvi - to B.Arch students from School of  
Planning & Architecture (SPA), Delhi

## References (available on request)

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**Mr. Balachandran Balakrishnan**, Doctoral  
Researcher for Regional Planning, University of Illinois,  
Urbana Champagne  
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**Mr. Andreas Schmidt**, Director - Innovation,  
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**Ms. Susmita Sinha**, Independent WASH Consultant  
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[sumi.sinha@gmail.com](mailto:sumi.sinha@gmail.com)

**Mr. Sasanka Velidandla**, Advisor to Managing  
Trustee, Water Sanitation and Hygiene Institute  
(WASHi); Chief Executive, CDD Society (from 2015-  
18)  
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[sasanka.velidandla@gmail.com](mailto:sasanka.velidandla@gmail.com)

**Dr. Christopher Hyun**, Sr. Environmental Scientist-  
Climate Lead; California State Water Board  
Mobile: +1 (510) 926-6182; Email:  
[chrish@berkeley.edu](mailto:chrish@berkeley.edu)

## Interests

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Cricket (CEPT University Cricket Team, 2010-11), Writing (Presently pursuing a creative writing diploma at  
the Indira Gandhi National Open University), Film making (Pursued a film making diploma from The Open  
Film School in Direction, 2018), Badminton, Travelling, Practitioner of Kyokushin Karate and Jiu Jitsu