

Dr. Shashidhar

Professor, Department of Civil Engineering, IIT Hyderabad

Brief Bio:

Shashidhar is a Professor in the Department of Civil Engineering, Indian Institute of Technology Hyderabad. He obtained Ph.D. from IIT Madras in 2006. Prior to joining IITH, Shashidhar worked as a faculty at NIT Warangal and NIT Trichy. He was a visiting faculty at Asian Institute of Technology Bangkok, University of Illinois, Urbana Champaign and University of Illinois Santiago De Compostela, Spain. He is engaged in both UG and PG teaching, faculty development programs, training engineers from the year 2006. He is also helping as BOS member to various technological universities and colleges. He is an Editorial board member of ASCE Journal of Hazardous material and radioactive waste and Guest Editor for the Journal of Sustainability. He is extensively involved in the hydraulic designs of Kaleshwaram Project, which is world's largest multi-stage lift irrigation scheme. He is also involved in the development of Amaravati Capital City and various water supply and LI projects of Andhra Pradesh, Orissa, Bihar, Madhya Pradesh, Chhattisgarh and Uttar Pradesh etc. From past 6 years, he is serving as a member of Telangana State Pollution Control Board and National Green Tribunal in various committees. He has published several peer-reviewed internationally reputed journals and several manuscripts under submission status. He received Young Engineer award from Institute of Engineers, India and UBA award from MHRD for implementing Swatchh Bharat Abhiyan in villages.

Research Interest:

Bioremediation, contaminant transport modeling, fate and transport of antibiotics and its resistance cultures, Hazardous waste management, Treatment of industrial effluents and climate change impact on water resources.

Google scholar: <https://scholar.google.com/citations?user=Twxd3Q4AAAAJ&hl=en>,

705 citations, h-index=10, i10 index=11

Education and Professional Positions

Academic Training:

Indian Institute of Technology, Madras Environmental and Water Resources Engg. Ph.D., 2006

Professional and Academic Positions

Professor	IIT Hyderabad, India	9/2020-Present
Associate Professor	IIT Hyderabad, India	3/2016-9/2020
Assistant Professor	IIT Hyderabad, India	5/2011-3/2016
Visit. Asst. Professor	AIT, Bangkok, Thailand	1/2011- 5/2011
Assistant Professor	NIT Warangal, India	2006-2011
Assistant Professor	NIT Trichy, India	5/2006-11/2006
Research Scholar	IIT Madras, India	2002-2006
Sr. Project Officer	CWR, Anna University, Chennai, India	1/2001-11/2001

Awards/Recognition:

[1]. GATE Fellowship, 1999

[2]. UGC Fellowship, 2002

[3]. Best presentation award in Civil Engineering Association at IIT Madras, India, 2005

[4]. Young Engineer of the year 2010 award from Government of Andhra Pradesh and Institute of Engineers

India, AP Local chapter

- [5]. Young Engineer Award from Institute of Engineers India, Kolkata, 2011
- [6]. Visiting faculty, Asian Institute of Technology Bangkok under MHRD, 2011
- [7]. University of Santiago De Compostela, Spain-India Fellowship under research excellence program, 2013
- [8]. Task Force/CFE and CFO Member of Telangana State Pollution Control Board
- [9]. Expert members in evaluating Hussain Sagar Lake Remediation Project (2013).
- [10]. Visiting faculty, University of Illinois, Urbana Champaign
- [11]. Board of studies member JNTU Hyderabad
- [12]. Board of studies member JNTU Pulivendula
- [13]. Organized International conference on Modeling Tools for sustainable water resources management, 2014 (First conference in water resources at IITH)
- [14]. Expert member of Greater Warangal Municipal Corporation Under Ground Drainage project
- [15]. Expert member of Greater Warangal Municipal Corporation water supply project
- [16]. Investigating Krishna water supply phase leaks, HMWSS
- [17] NGT issue related initiation of Rayalaseema Lift Irrigation Scheme, Hussain Sagar Lake cleaning, Secretariat Building demolition
- [18] Technical Committee member -Assessment of Availability of Godavari waters

Administrative Activities:

Institute Level:

- Unnat Bharat Abhiyan, IITH coordinator (Till 30th Dec, 2019)
- Rashtriya Avishkar Abhiyan, IITH Nodal Officer
- Member construction activities IInd Phase
- Involved in selection of Project team for IITH 1st phase construction and STP finalization
- Involved in recruitment of IITH permanent and temporary staff of institute
- IITH Coordinator: Clean Ganga Rejuvenation
- Coordinator: Between IITH and Telangana State Irrigation Department (MoU signed with Govt.)
- Radio Safety Officer, IIT Hyderabad (Received from Atomic Energy Regulatory Board)
- Organized International conference on MTSWRM-2014(First conference in EWRE at IIT Hyd.)
- Conducted First GIAN course at IITH
- Involved with JICA Friendship program- Energy and Environment
- Faculty Incharge for the construction of STP at NITW
- Students Grievances Committee member
- Chairman, Campus Environmental Monitoring Committee
- Helping IITH campus by water quality monitoring, Sterilising Dogs
- House keeping committee to resolve PF related issues of workers

Departmental:

- Heading the Department of Civil Engineering from 10th Dec., 2018
- Placement Coordinator, (Up to 2018)
- Faculty Recruitments coordinator, From 2011 to Dec., 2018,
- Sunshine coordinator, 2011 to Dec.,2018
- Organized workshops and international conferences
- Developed MTech. program EWRE, Initiated Mtech CC., Mtech Hydraulics and Water Resources Engg.
- Developed Environmental Engineering lab, Hydraulics lab, Isotope Hydrology Lab (Approved by AERB)
- No. of MTech students guided: 6 Nos. +2 Nos. as Co-Guide + 1 No. under progress

PhD and PDF Guidance:

- 1) Ritu Gothwal: Fate and transport of fluoroquinolone and its Resistant bacteria in riverine environment, Date of PhD Defence: 20-10-2017; Supervisor
- 2) Ch.Tirupath: Impact of future climate and LULC on sustainability of the Krishna River basin, Date of PhD Defence: 6-4-2020 Supervisor

- 3) Arul Poomalai : Electrokinetic Remediation for Heavy Metals Contaminated Sediments from Hussain Sagar Lake, Hyderabad, India, Date of PhD Defence: 24-7-2020, Supervisor
- 4) Sangeetha C.J.: Insights to biogenic controls on Cr (VI) reactive transport in subsurface environment: From macro to micro-scale investigations, Date of PhD Defence: 24-9-2020, Supervisor
- 5) Jitesh Lalwani: Treatment of Pharmaceutical industrial effluent by advanced oxidation processes and hydrodynamic cavitation. Date of PhD Defence: 5th Sep. 2020; Supervisor

Membership in Professional Associations, Publications, citations and Awards:

Members:

- Associate Editor, ASCE Journal of Hazardous Materials and Radioactive Waste
- Guest Editor, Sustainability
- Member of Institute of Engineers, India
- Member of Board of Studies: NIT Warangal, JNTU Hyderabad, JNTU Pulivendula, IIIT Basara, Pondicherry Technological University, Vasavi College of Engg., SR college of Engg., CMR, Srinidi College of Engg.
- Project evaluator for Council for advancement of people action in rural technologies, Ministry of Rural development

Publications

1. Journal papers

- **Scopus Indexed Journals**

1. A Ayyanar, S Thatikonda, Experimental and Numerical studies on remediation of mixed metal-contaminated sediments by electrokinetics focusing on fractionation changes, Environmental Monitoring and Assessment 193 (5), 1-33
2. R Ranjan, S Thatikonda, Risk-Assessment Method to Forecast Health Hazards Correlated with Distribution of NDM-1 Gene in Waterbodies Surrounding Hyderabad, India, Journal of Environmental Engineering 147 (5), 04021013.
3. R Ranjan, S Thatikonda, Journal of Applied Science & Process Engineering 8 (1), 700-711
4. RG thatikonda, Modeling Fluoroquinolone Resistance in Polluted Aquatic Environment of a River, Journal of Hazardous, Toxic, and Radioactive Waste 25 (2)
5. J Lalwani, S Thatikonda, S Challapalli, Varying Efficacies of Fenton's Oxidation Treatment on Pharmaceutical Industry Effluents of Contrasting Viscosity Profiles, CLEAN–Soil, Air, Water 49 (3), 2000335
6. D Ray, P Chawdhury, K Bhargavi, S Thatikonda, N Lingaiah, Ni and Cu oxide supported γ -Al₂O₃ packed DBD plasma reactor for CO₂ activation, Journal of CO₂ Utilization 44, 101400
7. A Ayyanar, S Thatikonda Enhanced electrokinetic remediation (EKR) for heavy metal-contaminated sediments focusing on treatment of generated effluents from EKR and recovery of EDTA Water Environment Research 93 (1), 136-147
8. Modeling transport of antibiotic resistant bacteria in aquatic environment using stochastic differential equations, Scientific Reports, nature
9. Kakarla, A., Qureshi, A., Shashidhar, T., De, S., Singh, S.G., Jana, S. RESILIENT: A Robust Statistical Method for Estimating Multiple VOC Sources from Limited Field Measurements, Journal of Atmospheric Environment, Heliyon, Cell Press, Elsevier

10. Modeling Fluoroquinolone Resistance in Polluted Aquatic Environment of River, to ASCE Journal of Hazardous Material and Radioactive waste
11. Jitesh Lalwani, Shashidhar Thatikonda, Challapalli Subrahmanyam, (2020) Oxidative treatment of crude pharmaceutical industry effluent by hydrodynamic cavitation, Journal of Environmental Chemical Engineering, Elsevier, <https://doi.org/10.1016/j.jece.2020.104281>
12. Jitesh Lalwani, Ashutosh Gupta, Shashidhar Thatikonda, Challapalli Subrahmanyam, (2020) An industrial insight on varying qualitative characteristics of pharmaceutical industry effluent and its impact on treatment strategies, Journal of Environmental Chemical Engineering, Elsevier. <https://doi.org/10.1016/j.jece.2020.104190>
13. Channapathi, Tirupathi and Thatikonda, Shashidhar, Evaluation of sustainability of river Krishna under present and future climate scenarios, Journal: Science of the Total Environment, Elsevier, <https://doi.org/10.1016/j.scitotenv.2020.140322>
14. Ayyanar, Arulpoomalai, and Shashidhar Thatikonda (2020) Enhanced Electrokinetic Removal of Heavy Metals from a contaminated lake sediment for ecological risk reduction, Soil and Sediment Contamination An International Journal, Taylor and Francis, <http://dx.doi.org/10.1080/15320383.2020.1783510>.
15. Ayyanar, Arulpoomalai, Shashidhar (2020) Enhanced Electrokinetic Remediation (EKR) for Heavy Metal Contaminated Sediments Focusing on Treatment of Generated Effluents from EKR and recovery of EDTA"; Water Environment Research, Wiley, <https://doi.org/10.1002/wer.1369>
16. Tirupathi Chanapathi, Shashidhar Thatikonda (2020) Investigating the impact of climate and land-use land cover changes on hydrological predictions over the Krishna river basin under present and future scenarios, Science of the Total Environment, Elsevier, Vol. 721, 2020, 137736 <https://doi.org/10.1016/j.scitotenv.2020.137736>
17. Sangeetha CJ, Shashidhar T (2020) Enhanced biogeochemical controls on dichromate speciation in subsoil containment, Ecotoxicology and Environmental Safety, Elsevier, 2020, <https://doi.org/10.1016/j.ecoenv.2020.110327>
18. Amarnath C R, Shashidhar Thatikonda (2020) Study on backwater effect due to Polavaram project under different return periods, Water, MDPI, 2020 doi:10.3390/w12020576
19. Ayyanar, Arulpoomalai, and Shashidhar Thatikonda (2020), "Distribution and ecological risks of heavy metals in Lake Hussain Sagar, India." *Acta Geochimica, Springer* 39, 255–270, <https://doi.org/10.1007/s11631-019-00360-y>
20. Tirupathi Chanapathi, Shashidhar Thatikonda (2019), Fuzzy – based Global Water Quality Index for surface water quality assessment, ASCE's Journal of Hazardous, Toxic, and Radioactive Waste, 23(4), 04019010
21. Jitesh Lalwani , Sangeetha CJ, Shashidhar T, Challapalli Subrahmanyam(2019) Sequential treatment of crude drug effluent for the elimination of API by combined electro-assisted coagulation-photocatalytic oxidation, Journal of Water Process Engineering, Elsevier <http://doi.org/10.1016/j.jwpe.2019.01.006>
22. Karthik S, Sangeetha C.J. and Shashidhar (2018), A lab-scale biodegradation study of BTEX under the unsaturated condition and its effect on soil matric potential, Soil and Sediment Contamination An International journal, Taylor and Francis, doi:10.1080/15320383.2018.1556597

23. Ch. Tirupathi, T. Shashidhar, K. Venkata Reddy and P. Naga Sowjanya (2018) Assessment of water resources and crop yield under future climate scenarios: A case study in a Warangal district of Telangana, India, *Journal of Earth System Science*, Springer 129(1), 1-17.
24. Chanapathi.Tirupathi, Srinivasan Raghavan, Shashidhar Thatikonda, (2018) Analysis of rainfall extremes and water yield of Krishna river basin under future climate scenarios, *Journal of Hydrology: Regional Studies*, Elsevier 19, 287-306.
25. Chanapathi.Tirupathi, T. Shashidhar, Vishnu P. Pandey, Sangam Shrestha, (2018) Fuzzy-based approach for evaluating groundwater sustainability of Asian cities, *Journal: Sustainable Cities and Society*, Elsevier 44, 321-331.
26. L. Chandana P. Ghosal, T. Shashidhar and Ch. Subrahmanyam (2018) Enhanced photocatalytic and antibacterial activity of plasma-reduced silver nanoparticles, *RSC Advances*, 2018, Issue 60.
27. L. Chandana, C J Sangeetha , T. Shashidhar (2018) Non-Thermal Atmospheric Pressure Plasma Jet for the Bacterial Inactivation in an Aqueous Medium, *Science of the Total Environment*, 640, 493-500. <https://doi.org/10.1016/j.scitotenv.2018.05.342>
28. Kakarla, A., Qureshi, A., Shashidhar, T., De, S., Singh, S.G., Jana, S. (2017) Source localization via aermod-based simulation under mean squared error criterion: Demonstration using field data. *International Geoscience and Remote Sensing Symposium (IEEE)*, Volume 2017-July, 1 December 2017, Article # 8128425, Pages 6201-6204. (37th Annual IEEE IGARSS symposium) <http://dx.doi.org/10.1109/IGARSS.2017.8128425>.
29. Ritu Gothwal, Shashidhar. T. (2017) Mathematical model for the transport of fluoroquinolone and its resistant bacteria in aquatic environment, *Environmental Science and Pollution Research*, 25(21), 20439-20452
30. Ritu Gothwal, Shashidhar. T. (2017) Role of environmental pollution in prevalence of antibiotic resistant bacteria in aquatic environment of river: Case of Musi river, South India, *Water and Environment Journal.*, Wiley 31(4), 456-462.
31. Ritu Gothwal, Shashidhar. T. (2017) Proliferation of ciprofloxacin resistant bacteria in polluted sediments of Musi river, India, *Soil and Sediment Contamination An International Journal*, Taylor and Francis, 26(5), 501-509
32. Ritu Gothwal, Shashidhar. T. (2016) Occurrence of high levels of fluoroquinolones in aquatic environment due to effluent discharges from bulk drug manufacturers, *ASCE, Journal of Hazardous, Toxic and Radioactive Waste*. 21(3), 05016003
33. Kookana, R.S., Williams, M., Boxall, A.B.A., Larsson, D.G.J., Gaw, S., Choi, K., Yamamoto, H., Thatikonda, S., Zhu, Y-G., Carriquiriborde, P. (2014) Potential ecological footprints of active pharmaceutical ingredients: an examination of risk factors in low-, middle-and high-income countries. *Philosophical Transactions of the Royal Society B: Biological Sciences* 369: 20130586.
34. Ritu Gothwal T. Shashidhar, *Antibiotic Pollution in the Environment: A Review*, doi: 10.1002/clen.201300989, *Clean – Soil, Air, Water*, Wiley, 2014, 42 (9999), 1–11.
35. Basappa. B. Kori, Shashikanth Mise and Shashidhar, *Water Quality Modeling and Management of Karanja River in India*, *International Journal of Earth Sciences and Engineering* ISSN 0974-5904, Vol. 05, No. 06, December 2012, pp. 1630-1638.

36. T Shashidhar, N. Nisha, S. Murty Bhallamudi, and Ligy Philip "Design of a passive bio-barrier system for chromium containment in confined aquifer", Practice Periodical of Hazardous, Toxic, and Radioactive Waste Management, ASCE, 11(4), 216-224, 2007.
 37. T Shashidhar, S. Murty Bhallamudi, and, Ligy Philip "Development and validation of a model of biobarriers for remediation of Cr (VI) contaminated aquifers using laboratory column experiments", Journal of Hazardous Materials, Elsevier, 145, 437-452, 2007.
 38. T Shashidhar, Ligy Philip, and S. Murty Bhallamudi "Bench Scale Column experiments to Study the containment of Cr(VI) in confined aquifers by biotransformation", Journal of Hazardous Materials, Elsevier, B (13), 201-209, 2006.
 39. Channapathi, Tirupathi and Thatikonda, Shashidhar, Stochastic Transmission Dynamic Model for Evaluating Effectiveness of Control Measures of COVID-19, The Lancet (3/22/2020). <http://dx.doi.org/10.2139/ssrn.3559581> (Preprint)
 40. Basappa. B. Kori, T. Shashidhar and Shashikanth Mise "Application of automated QUAL2Kw for water quality modeling in the river Karanja, India" Global Journal of Bio-Science and Biotechnology, Vol.2 (2) 2013: 193-203.
 41. Shashidhar and Gowri Shanker. M, "Solid waste management of NITW campus using Biomethanization", Journal of Environmental Research and Development, 6(3A) 2012.
 42. Shashidhar, Krishna Kanth, Nageswara Reddy, V.K. Singh, S. K. Mahapatra, "Ambient Air Quality Monitoring for Warangal City", Indian Journal of Airpollution Control vol XI(1), 2011, 31-40
 43. Shashidhar and Ajit Kumar. O.M., "Municipal Solid Waste management of Warangal City", Journal of Environmental Research and Development, 6(1) 2011
 44. Ravikumar, G., Shashidhar, T., Krishnaveni, M. Karunakaran, K "GIS based ground water quantity assessment model", International Journal of Civil and Environmental Engineering, 2, 21-30, 2005
- **Groundwater Environment in Asian Cities, Case Studies, Concepts, and Methods**, ISBN 9780128031667, Butterworth-Heinemann, An Imprint of Elsevier, pages: 542
 - Transport and biotransformation of chromium in contaminated aquifers experimental and modeling studies, LAP LAMBERT Academic Publishing (2010-12-17), ISBN-13:978-3-8433-8340-0 ISBN-10: 3843383405, EAN: 9783843383400

2. Conferences

1. M. Karmegam, T. Shashidhar and N.G. Anuthaman Innovative approach to sustaining groundwater in tanneries concentrated domestic area of Chennai Seminar on Status on Urban Infrastructure in Chennai, Anna University, Chennai, 2001
2. T. Shashidhar, K. Ramakrishna, Ligy Philip, B.S. Murty, "Management of Leachate from Chromium sludge using Bioremediation", International workshop on Sustainable Landfill Management Anna university, Chennai, India. 2003
3. T. Shashidhar and K. Ramakrishna Optimal pumping strategies to contain a contaminated aquifer system", Paper presented in National conference on Water Quality National Institute of Hydrology, Roorkee, India, 2004
4. T. Shashidhar and M. Ravindranath Ground water Quality analysis in and around Bollaram National conference on Innovative techniques for sustainable development of water resources, Annamalai University, Chidambaram, 2005

5. T Shashidhar, Ligy Philip and S. Murty Bhallamudi "Modelling of transport and biotransformation of Cr(VI) contaminated aquifer" International congress on chemical environment, Indore, Dec. 2005
6. T.Shashidhar and Kaarmegam, "Ground water modelling of a Ambur sub watershed "International conference on Environmental Management, Hyderabad, India. 2005.
7. T.Shashidhar, Nisha Nandan, Bhallamudi, S.M., and Ligy Philip Optimal design of bio-barriers for the remediation of Cr(VI) contaminated aquifer International conference, An International Perspective on Environmental and Water Resources, EWRI, ASCE, Delhi, 2006
8. T.Shashidhar and Nisha Nandan, Design of a passive bio-barrier system for chromium containment in confined aquifer Symposium on engineering of ground & environmental geo-techniques (s eg2), JNTU Hyderabad, 2008
9. Shashidhar and Gowri Shanker.M Solid waste management of NITW campus using biomethanization 3rd International Congress Environmental Research (ICER-10) held at Reduit, Mauritius on September 16-18, 2010
10. Shashidhar and Ajit Kumar. O.M. Municipal Solid Waste management of Warangal City, 3rd International Congress Environmental Research (ICER-10) held at Reduit, Mauritius on September 16-18, 2010
11. C K Anoop.,E. Venkata Rathnam, T. Shashidhar , A.Shahul Hameed, ,K. V. Jayakumar, Isotopic studies for Lake Hydrology, National Conference, HYDRO 2011, SVNIT Surat, Gujarat
12. C K Anoop E.V. Rathnam T.Shashidhar A. Shahul Hameed, K.V.Jaya kumar, Isotope tracer techniques for the study of lake hydro dynamics, LAKE 2012
13. Tapasay Y S N, Kambhammettu BVN P, and Shashidhar T (2012). "Delineation of Groundwater Potential Zones using Geo-Electric Survey - A Case Study", HYDRO-2012 Conference, IIT Bombay, India Received "**G M Nawathe Puraskar Award (for best paper in HYDRO 2012 Conference)**"
14. Ponce de Leon Barido, D.; Nelson, H.; Thatikonda, S.; Smith, R.; Roe, T.; Foufoula, E. The Importance of Change: Contextualizing Natural and Anthropogenic Hydrologic Variability in terms of agricultural and sectorial economies in India, AGU conference,2012
15. ShashidharThatikonda., Rama Tammu., and Maria Loureiro, Generating a dengue risk map based on environmental and socio-economic factors using GIS, 5th Int. Conference on Health GIS-2013, AIT Bangkok 21-23 August 2013.
16. P.Srinivasa Rao,, A. Lokesh Kumar, , P.V.N.Gautam,, S.Karthik, and T.Shashidar, Vertical Electrical Sounding for finding Groundwater potential zones in IIT Kandi Campus, Hyderabad, Andhra Pradesh, Two day National conference on water, environment & society (NCWES-2014) 30th June and 1 July 2014 at Hyderabad, India Organized by CWR, IST, JNTUH, HYDERABAD
17. T.Shashidhar, Groundwater Status in Hyderabad, India, workshop on 'Enhancing the groundwater management capacity in Asian cities through the development and application of groundwater sustainability index in the context of global change' from 16-17 January, 2014 at Asian Institute of Technology (AIT) in Bangkok, Thailand.
18. Lakshmi Saileela Manubolu, Shashidhar Thatikonda, Tirupati Boliseti, Conjunctive use of surface water and ground water in parts of Nagarjuna Sagar Canal command area, Computational Methods in Water Resources 2014, XX. International conference 10th - 13th June, 2014 at the University of Stuttgart, Germany2014
19. Shashidhar and Ritu Gothwal, Mathematical Model for the Transport of Fluoroquinolone Antibiotics and its Resistant Culture in Aquatic Environment, Ecological Modeling, The International Society for Ecological Modelling Global Conference 2016, 8-12 May, 2016, Towson University Baltimore, USA
20. Ch.Tirupathi, T. Shashidhar. Impact of climate change on water resources of Krishna river basin, Hydro-2016, 21st International Conference on Hydraulics, Water Resources and Coastal Engineering at CWPRS PUNE, INDIA during 8-10 Dec 2016.
21. Shashidhar T, "Occurrence of High Levels of Fluoroquinolones and Its Resistant Culture In Aquatic Environment of River Due to Effluent Discharges From Bulk Drug Manufacturers", International Conference on Water: From Pollution to Purification (ICW 2016) Dec. 12-15, 2016, Mahatma Gandhi University, Kottayam, Kerala (Invited Speaker)
22. Amarnath CR, Shashidhar, Assessment of Ecosystem services under present and future Climate scenarios for Godavari basin, has been accepted for presentation at the 2016 International SWAT Conference in Beijing, China.
23. Sangeetha, CJ and Shashidhar, T 'A pore-scale evaluation of bacterial mediated transformation of toxic Cr (VI) to Cr (III) by using real-time electrical capacitance method', 9 th International Conference on Porous Media & Annual Meeting. Rotterdam, The Netherlands, May 8 th to May 11th 2017, ISSN: 2518-3826

24. Sangeetha, CJ and Shashidhar, T 'Assessment of indigenous bacterial isolates from a chromium contaminated site for an effective design of permeable bio-barrier to reduce toxic Cr VI toxicity', Urbanization challenges in emerging economies - ASCE India Conference, New Delhi, India, 12 th to 14 th December, 2017.
25. Shashidhar, T "Groundwater Pollution in Telangana", Workshop on "Current Trends and Sustainable Management Options in Water Sector, Telangana State" organized by CGWB, SR, Hyderabad on 8th December 2017 at CSIR-NGRI, Hyderabad.
26. Shashidhar, T, Contaminant transport modeling in aquatic environment, National Workshop on water resources system modeling, Anna University 9th and 10th March 2017
27. Source localization via aermod-based simulation under mean squared error criterion: Demonstration using field data Kakarla, A., Qureshi, A., Shashidhar, T., Singh, S.G., Jana, S. 2017 International Geoscience and Remote Sensing Symposium (IGARSS), 2017-July, 8128425, pp. 6201-6204
28. Ch. Tirupathi and Shashidhar, T., Extreme event analysis of Krishna River basin under future scenarios, International Watershed Modeling (SWAT) Conference in IIT Madras, Chennai, INDIA, 2018, 10th-12th Jan. 2018.
29. Hima Bindu Boddu, T. Shashidhar, (2018). "SWAT-MODFLOW and an Optimization Model for Conjunctive Use of Surface and Groundwater of Nagarjuna Sagar Catchment". International Watershed Modeling (SWAT) Conference in IIT Madras, Chennai, INDIA, 10th-12th Jan. 2018.
30. Contamination of the environment from general sewage waste, organized by International Environmental AMR Forum, The United Kingdom Science and Innovation Network and the United States Centers for Disease Control and Prevention, in collaboration with the Wellcome Trust, April 4-5, 2018 in Vancouver, Canada (Panelist)
31. Amarnath CR, T. Shashidhar, (2018) "Valuing Hydrological outputs as Water related Ecosystem Services under Present and Future Climate Scenarios for Godavari basin, The 2018 International SWAT Conference in Brussels, Belgium
32. Development of Electrokinetic Remediation Technique for Hussain Sagar Lake Sediments Contaminated with Heavy Metals, 8th International Groundwater Conference (IGWC-2019), Sustainable Management of Soil-Water Resources October 21-24, 2019, Roorkee, Uttarakhand, India
33. Understanding the environmental and non-therapeutic health risks of increasing access to medicines in low- and middle-income countries 8-11 September 2019 Tribe Hotel, Gigiri, Nairobi, Kenya, University of Cambridge Institute for Sustainability Leadership (CISL) and AstraZeneca
34. 3-Day National Workshop on Solid Waste Management Practices, CVR College of Engineering, Hyderabad, 19-21 August, 2019
35. Chandrasekharam, D., Shashidhar, T., Gowtham, R. and Varun, C, High heat generating granites of Hyderabad, India, Proceedings World Geothermal Congress 2020, Reykjavik, Iceland, April 26- May 2, 2020 (Postponed due to COVID-19)

Research and consultant project: Total: 2874.9 Lakhs =2014.2 Lakhs (Sponsored) + 860.7 Lakhs (Consultancy)

Sponsored Projects (Total Projects cost as PI &Co-PI: 2014 Lakhs)

Slno	Project No As per R&D office	Year	Name of the Principal Investigator	Sponsoring Agency	Sanction Number and Date	Project cost Lakhs	Project Title
1	CE/2012-13/005/DST/TS/0058	2012-13	Dr.T.Shashidhar	DST	SR/FTP/ETA-116/2010 Dated 15.05.12	11.1	Design of Permeable Bio-Barriers to contain Cr(VI) In a Contaminated Aquifers
2	CE/2014-15/023/MOES/TS/0138	2014-15	Dr.T.Shashidhar	MOES	MOES/PAMC/H&C/35/2013-PC-II Dated 25.09.14	100	Seasonal Hydrologic Predictions based on Regional Forecasts of Monsoon Rainfall with CWRP and Statistical Downscaling (<i>Joint project between IITB & IITH</i>) PI from IITH Prof.Subimal Gosh, PI from IITB
3	CE/2015-16/023/MHRD(GIAN)/TS/0197	2015-16	Dr.T.Shashidhar	MHRD (GAIN)	IIT/GIAN/S-15/36 Dated 23.11.2015		Implementation of Global Initiative on Academic Network (GIAN) Program
4	TSPCB/CE/F064/2016-17/C5	2016-17	Dr.T.Shashidhar	Telangana State Pollution Control Board	90/TSPCB/EOD U/CFE/2016 Dated 22.12.2015	≈33	Third Party Inspection of Orange Category Industries
5	UNNAT/CE/F064/2016-17/G38	2016-17	Dr.T.Shashidhar	Unnat Bharat Abhiyan	Unnat E-mail:UBA Date: 23.12.2016	1.75	Visit the cluster and formulation of Project/Gram Panchayat Development Plan
6	UAY/CE/F064/2016-17/G33	2016-17	Dr.T.Shashidhar UAY_IITH_005P Co-PI: Dr Subramanyam Ch & Dr Narasimha M	MOEFCC-Vishnu Chemicals Ltd	MoU No. 29481 Dated: 07.12.2016	400	Developing a process and pilot scale unit for the recovery of chrome and other value added products from chrome ore process residue (CORP)
7	CE/2014-15/020/MHRD/KVLS/0130	2014-19	PI: Prof.KVL Surbamaniam Co-PIs: Shashidhar	MHRD	F.No-5-5/2014-TS.VII Dated 04.09.2014	400	Creating Centre of Excellence in new and emerging areas of Science and Technology in

							New and Advanced (frontier)area of Science & Technology
8	UAY/CHY/F019/2017-18/G119	2017-18	UAY_IITH_007, PI: Co-PI:Shashidhar	UAY	MoU Dated: 10.03.2018	123	Development and Demonstration of a Prototype Catalytic Plasma Incinerator for the removal of industrial noxious gases
9	NITW	2011-14	PI: Dr.T.Shashidhar, <i>Project transferred to Dr.E.V. Ratnam while shifting from NITW to IITH</i>	Ministry of Science & Technology, Gol. DST_IRHPA	NA	19.8	Lake dynamics and their interaction with the aquifers in and around Warangal city by using Isotopes
10	Approved on 02.04.2020	2020-23	PI: Shashidhar India PI: Jan Kreft, UK	DBT-UKRI, NERC	Funds at to receive	419.032	AMR flows: antimicrobials and resistance from manufacturing flows to people: joined up experiments, mathematical modelling and risk analysis, 697.34 Lakhs (UK Team)
11	S-90 (GEC Automation Project, CGWB)	2019-20	PI: KBVN Phanindra Co-PI:Shashidhar	CGWB, Ministry of Water Resources, River Development and Ganga Rejuvenation	CGWB	559.28	Automation of estimation of dynamic groundwater resources using GEC-2015 methodology and related Research work