

# MAMILLA VIJAYA KUMAR

M. Tech (Ph. D)

Email: civilvijay1@gmail.com

vijaynitwee@gmail.com

Mobile Number: 7780415754



**Summary:** Dedicated Assistant Professor with a strong recording teaching, industrial, and administration. Adept at explaining highly complex engineering theories and practices in a clear and accessible manner to a variety of professional and non-professional audiences. Committed to offering interested students my full attention and expertise to help further their academic and professional goals.

## Educational Background:

Qualification	Specialization	School/College	Board/University	Duration	%of marks (or) C.G.P.A
Ph.D.	Environmental Engineering	Mohan Babu University, Tirupati.	Mohan Babu University, Tirupati.	2023-Pursing	
M. Tech	Environmental Engineering	NIT Warangal.	NIT Warangal	2013-2015	7.08 (CGPA)
B. Tech	Civil Engineering	Y.S.R Engineering College of Y.V.U.	Yogi Vemana University	2008-2012	7.5 (CGPA)
Intermediate	-	Sri Vijayavani junior college, Kadapa.	Board of Intermediate Board Education, A. P	2006-2008	88.88
SSC	-	Z.P High School, Gangaya Palli, Kadapa.	Board of secondary Education, A. P	2001-2006	80.66

## Academic honors/awards:

Recipient of GATE scholarship (Qualified in GATE-2013) exam with 6530 rank conducted by IIT Bombay.

## Teaching and industrial experience:

1. Assistant Professor in the Department of Civil Engineering at KSRM College of Engineering, Kadapa from July 2024 to till date.
2. Assistant Professor in the Department of Civil Engineering at Sri Venkateswara Institute of Science and Technology, Kadapa from March 2021 to May 2024.
3. Assistant Professor in the Department of Civil Engineering at Sree Vidyanikethan Engineering College, Tirupati from July 2019 to April 2020.
4. Worked as a Design Engineer in VITYA Consultants Pvt. Ltd, Hyderabad from February 2018- July 2019.

5. Assistant Professor in the Department of Civil Engineering in Global College of Engineering and Technology, Kadapa, from July 2015 to June 2016.

**GOOGLE SCHOLAR CITATION LINK:**

<https://scholar.google.com/citations?hl=en&user=iKO8hYAAAAAJ>

**SCOPUS AUTHOR LINK:**

[scopus.com/authid/detail.uri?authorId=58774233500](https://scopus.com/authid/detail.uri?authorId=58774233500)

**RESEARCH GATE LINK:**

<https://www.researchgate.net/profile/Mamilla-Kumar>

**VIDWAN LINK:**

<https://vidwan.inflibnet.ac.in/profile/507765>

**Scopus publications:**

1. Dr. Hemadri Prasad Raju, **Mamilla Vijaya Kumar**, and Dr. Pachaiyannam Patheeban, Wastewater Treatment in construction wetlands by Phytoremediation Technique, E3S Web of Conferences 455, 03023 (2023), <https://doi.org/10.1051/e3sconf/202345503023>.
2. **Mamilla Vijaya Kumar**, Dr. Hemadri Prasad Raju, K. Raga Swaroop Reddy, and B. Tharun Balaji. WQI Assessment for Swarnamukhi River water at Chandragiri, Andhra Pradesh, India, E3S Web of Conferences 559, 01004 (2024), <https://doi.org/10.1051/e3sconf/202455901004>.

**Peer reviewed Journals Publications:**

1. M. Vijaya Kumar, Dr. H. Prasad Raju (2020), "Nitrate removal from aqueous solution by orange peels as an adsorbent", Journal of critical reviews, ISSN - 2394-5125, Volume 7, Issues 04, 2020, pp 1224-1231, doi:10.31838/jcr.07.04.219.
2. M. Vijaya Kumar (2021)," Air pollutants and effects of air pollution: A Review", International Journal of Scientific and Engineering Research", ISSN: 2229-5518, Volume 12, Issues 10, October 2021, pp 103-116.
3. M. Vijaya Kumar (2021), A review on municipal solid waste disposal by sanitary land filling method, International Journal of research and Reviews, Volume 8, Issues 10, pp 520 530. doi: <https://doi.org/10.52403/ijrr.20211066>.
4. M. Vijaya Kumar (2021), A review on water pollution- sources, effects on human beings and preventive measure, International Journal of Advanced Engineering and Research Development, Volume 8, Issues 11, November 2021, pp 16-22, DOI:10.21090/IJAERD.41335
5. M. Vijaya Kumar (2021), A review on municipal solid waste management, IJAERD, Volume 8 Issues 12, December 2021, pp 1-6, DOI:10.21090/IJAERD.58443.

6. M. Vijaya Kumar (2021), Drinking water treatment with disinfection method: A Review, IJSTE, Volume 8, Issue 4, November 2021, pp 1-5, ISSN (Online):2349-784X.
7. M. Vijaya Kumar (2021), A Review on effects of air pollution on human beings and Global environmental effects of air pollution, IJSTE, Volume 8, Issue 4, November 2021, pp 10-15 ISSN(Online) 2349-784X.
8. M. Vijaya Kumar (2022), Assessment of suspended particulate matter in ambient environment, IJAERD, Volume 09, Issue 2, February 2022, pp 1-10, DOI:10.21090/IJAERD.59323.
9. Mamilla Vijaya Kumar (2024). A review on sustainable construction, International Journal of Research and Reviews (IJRR), Volume 11, Issues 04, PP 251-258, DOI: <https://doi.org/10.52403/ijrr.20240427>.

#### Conference paper publications:

1. **M. Vijaya Kumar** and Dr. Hemadri Prasad Raju, Removal of nitrate from water by using chemically modified orange peels as an adsorbent, National conference on Advanced Construction Materials and Techniques for Sustainable Development (NCAM-2020) organized by Department of Civil Engineering Chennai Institute of Technology Kandrathur, Chennai 600069, on 30<sup>Th</sup> May 2020.
2. **Mamilla Vijaya Kumar**, Venkata Kamal Lal Meenuga, A study of drinking water treatment by disinfection method: A review. 11<sup>Th</sup> International Conference On Recent Developments In Engineering & Technology (11<sup>Th</sup> ICRDET-2021), Organized by International Institute of Research in Multidisciplinary Skill Development Trust, Chirala, Andhra Pradesh, India on 12<sup>Th</sup> September-2021 (<https://www.iirmsdt.org/>, ISBN-13: 979-8-4706-4893-8).
3. **Mamilla Vijaya Kumar**, Venkata Kamal Lal Meenuga, Quality assessment of air pollution under the impact of urbanization, 3<sup>rd</sup> International Conference on Current Research In Engineering & Technology (3<sup>rd</sup> ICCRET-2021) Organized by International Institute of Research in Multidisciplinary Skill Development Trust, Chirala, Andhra Pradesh, India on 10<sup>Th</sup> October-2021.
4. Dr. Hemadri Prasad Raju, **Mamilla Vijaya Kumar**, and Dr. Pachaiyannam Patheeban, Wastewater Treatment in construction wetlands by Phytoremediation Technique, in the 2023 International Conference on Green Energy, Environmental Engineering and Sustainable Technologies 2023 (ICGEST 2023) held at KLS Gogte Institute of Technology, Belagavi, Karnataka, India during 05 – 06<sup>Th</sup>, October 2023. The conference has been organized by the Department of Civil Engineering, KLS Gogte Institute of Technology.
5. **Mamilla Vijaya Kumar**, Dr. Hemadri Prasad Raju, K. Raga Swaroop Reddy and B. Tharun Balaji, “WQI Assessment for Swarnamukhi River water at Chandragiri, Andhra Pradesh, India” in the 2024 Second International Conference on Sustainable Technologies in Civil and Environmental Engineering (ICSTCE 2024) held at Dr. D.Y. Patil Institute of Technology, Pune, Maharashtra, India during 06- 07, June

2024. The conference has been organized by the Department of Civil Engineering, Dr. D.Y. Patil Institute of Technology.

#### **Book publications:**

1. Dr. Hemadri Prasad Raju, Prof. Mihir Kumar Shome, **M. Vijaya Kumar** and Biplab Kumar Dey- “Environmental Degradation, Concerns, and Economics”- ISBN 978-93-95936-09-5, Academic Guru Publishing House (2022).

#### **Webinars or FDPs attended:**

1. A national web conference on “Advanced construction materials and technologies for sustainable Development” (NACM 2020) conducted by Chennai Institute of Technology, Sarathy Nagar, Chennai-600069.
2. A national-level online webinar on “Environmental sustainability” organized by SES-RE cell in the association with SVEC, Tirupati on 5<sup>Th</sup> June 2021.
3. A two-day national-level program on “Potential challenges and novel approaches in geotechnical engineering” organized by the Department of Civil Engineering, Siddharth Institute of Engineering and Technology, Puttur from 11<sup>Th</sup> and 12<sup>th</sup> June 2021.
4. A national webinar on” Typical flexible pavement distress” organized by the Department of Civil Engineering, Annamacharya Institute of Technology and Science, Kadapa on 14<sup>Th</sup> July 2021.
5. A one-day national workshop” Rainwater harvesting and water conservation process” organized by NSS Cell, Saint Francis De Sales College, Nagpur on July 13<sup>Th</sup> 2021.
6. A national webinar on " ideation to commercialization" conducted jointly by JB Institute of Investors Association India and JB group of educational institutions, Hyderabad on 16<sup>Th</sup> July 2021.

#### **Workshops attended:**

1. A five-day workshop on “effective teaching” (IIEECP-I). IUCE International Engineering Educators certificate program is organized by the Department of Computer Science and Engineering on 09.12.2019- 13.12.2019 in Sree Vidyanikethan Engineering College by resource person as Dr. Claire Komives, Professor, Chemical & Material Engineering (San Jose State University, California, USA).
2. A three-day national-level faculty development program on “Sustainable concrete technology and its construction “Organized by the Department of Civil Engineering, RISE Krishna Sai Prakasam Group of Institutions from 01-03<sup>rd</sup> July 2021.
3. A one-week online faculty development program on “Recent Innovative Developments in thermal engineering” from June 28<sup>Th</sup> – July 03<sup>rd</sup>, 2021 by the Department of Mechanical Engineering, Malla Reddy Engineering College (Autonomous), Hyderabad, Telangana.

4. A three days online faculty development program on "Recent advance in concrete technology" from 27<sup>th</sup> July to 29<sup>th</sup> July 2021 organized by the Department of Civil Engineering, Andhra Loyola Institute of Engineering and Technology, Vijayawada - 520006, A.P.

#### **Consultancy works done:**

1. Design, Analysis, and Estimation of sewage and Storm water drainage network systems for various Municipalities (30 ULBs) in Telangana State (January 2018 to July 2019).  
**Role:** Involved in the design and analysis of Sewer and Stormwater networks, Estimation of project cost, technical meetings with clients, and field visits to understand ground reality. Inputs are given in preparation for EIA and hydraulic design of STP.
2. Preparation of draft EIA for development of economic corridors, inter corridors, feeder routes and to improve the efficiency of freight movement in India, Armoor-Jagitial section of NH-63 and Jagitial Ramagundam section of NH-563 – 148.600 km.
3. Consultancy service for preparation of Environmental Impact Assessment (EIA), Environmental Management Plan (EMP), and obtaining Environmental clearance(EC) under EIA notification 2006 from the Ministry of Environment, Forest and Climate Change (MoEF & CC) for the projects to be implemented under Nagpur Smart City Projects.  
**Role:** Baseline data monitoring and client meetings.
4. Pre-bidding site visiting and client meeting for “Consulting Services for Preparation of Detailed Project Report (DPR) or providing Under Ground Sewerage Scheme in leftover / added areas in 7 towns (Northern Cluster) in Tamil Nadu”.  
**Role:** Site visiting and data collection from government officials
5. Baseline monitoring for “Detailed study report to identify wastewater flow from the industrial parks into the five major water bodies i.e., Khazipally, Isnapur, Kishnreddy Pally, Gandigudem, Asani kunta, and its mitigation Measures
6. Analyzed swimming pool water quality of Sri Vidyanikethan International School, Tirupati-517102.

#### **Memberships in Professional Organizations:**

1. Life Member of The Indian Society for Technical Education (ISTE) - LM 139469.
2. International Association for Engineers (IAENG) – Member Number: 370018.
3. Life Member of Indgians Association of Educators & Professional Trainers (IAEPT) – Membership ID; I16305056

#### **B. Tech Projects guided:**

1. Junction improvement in Kadapa City (2015-2016).
2. Study of air pollution in the Tirupati city (2019-2020).
3. Study and behavior of concrete with partial replacement of cement and sand with copper slag (2020-2021).
4. Distress survey on flexible pavement- A case study on NH- 40 Highway (2020- 2021).
5. Assessment of surface water quality of Patha Kadapa Cheruvu (2021-2022).
6. Characterization of sewage and design of sewage treatment plant (2022-2023).
7. Developments of low-cost filters using herbal techniques (2022-2023).
8. Effects on strength properties of concrete using fly ash as replacement of cement (2023-2024).

9. Estimation and groping of tanks (2023-2024).

**Software skills:** EPANET, Sewer Gems, Storm CAD, AutoCAD, CFD, MS Office, MS PowerPoint, Excel.

**Address:**

M. Vijaya Kumar,  
S/o M. Pedda Veeraiah  
Door No: 4/61-A,  
Boreddy Palli (V),  
Vallur (M),  
Kadapa (District)  
Andhra Pradesh -516293

**Declaration:** I hereby declare that the above information is true and correct to the best of my knowledge and belief.

M. Vijaya Kumar  
Date: