

Pareshkumar G

Moradeeya



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DOB : 03/03/1991

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Career Objective: Create my own specialty by dedicating myself and adopting an approach that is professional, in accordance with increasing my experience by taking on tough tasks

Experiences:

- **January 2017 – November 2019**
Project Assistant • Council of Scientific and Industrial Research- National Environmental Engineering Research Institute, Hyderabad Zonal Centre (CSIR-NEERI HZC)
Field Survey, Air, Water Soil, Marine Sampling & analysis for EIA and EMP of various Consultancy sponsored project (Detail in Annexure)
- **November 2014– January 2017**
Project Assistant • Council of Scientific and Industrial Research–Central Salt and Marine Chemicals Research Institute (CSIR–CSMCRI)
Characterization and testing of Nanocellulose for removal of pesticide in model and real waste water (DST funded Project- Detail in Annexure)

Educations:

- 2019-2022 Ph.D.: Department of Environmental Science and Engineering, Marwadi University Rajkot (MU), Gujarat, India
Thesis title: **“Development of advanced photocatalytic materials for degradation of pesticides/herbicides from aqueous streams”**
CSIR-NEERI HZC & MU
- 2012-2014 M.Sc.: Department of Environmental Science
Institute of Science and Technology for Advanced Studies and Research, Anand, Gujarat, India (ISTAR)
Thesis title: **“Synthesis of nanocellulose from seaweed and its application for wastewater treatment”**
CSIR-CSMCRI & ISTAR

Professional training and programme:

- Completed training in, “Basics of Nanotechnology and its Application” at ICAR-CIRCOT, Matunga, 2014
- Attended three days training in SICART on instrumentation employed in Environmental Laboratory at Vallabhvidhya Nagar, 2013
- Undergone in-plant training in Department of Quality Control (QC) and Process Control (PC) at Vaishnavi Bio-Tech, Gujarat, 2011

Technical Skills:

- Analysis of the global water and waste water quality parameters
- Synthesis and characterization of nanocomposite
- HPLC Method Development, ICP-OES, UV-Vis Spectra
- Communication: Developing report writing skills to a high standard showing clarity and brevity as a fieldwork assistant and received positive feedback after delivering presentations
- IT skills: Microsoft Office

Workshop and Seminars:

- Attended workshop on, “Recent Trends in Environmental Science & Technology” at VallabhVidhya Nagar, 2013
 - Attended one day National Seminar on, “Recent Trends in Safety in Chemical industry” at VallabhVidhya Nagar, 2013
 - Attended participated in the seminar on RE-ENVIS 2015, “Ecological aspects of renewable energy development in India” at Gandhinagar 2015
 - National Workshop on “Impact of Climate change on Coastal Ecosystem (ICE)”, Organized by CSIR-CSMCRI Bhavnagar, Gujarat.(9th & 10th June, 2016)
 - Workshop on “Hazardous Waste Management Turning Waste into Wealth” Organized by National Environment Engineering Research Institute, Gujarat pollution Control Board and Centre for Environment Education at Ahmedabad, Gujarat (17th June, 2016)
 - National Workshop on “Advanced Instrumentation” Organized by Central Instrumentation Facility (CIF)- Central university of Gujarat, Gandhinagar, Gujarat, India (15-17 September, 2016)
 - National Workshop on “Urban Environmental Management-Solutions for Sustainability (UEM), organized by CSIR-National Environmental Engineering Research Institute, Hyderabad Zonal center, Hyderabad (17th -18th August,2017)
 - “Low-cost renewable energy driven (Ic-red) Wastewater treatment, options ” Pandit Deendayal Energy University, 2021
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International & National conference:

- “Removal of Cypermethrin from aqueous solution using nanocellulose: Equilibrium Studies”. **Pareshkumar G Moradeeya**, Madhava Anil Kumar, Ravikumar Bhagawan Thorat, Shaik Basha. Poster presentation in International conference on Nanoscience, Nanotechnology & Advanced Materials” (14-17 December, 2015), organized by Dept. of Chemistry, GITAM Institute of Science, Visakhapatnam
 - “Photocatalyst, Nanocellulose-TiO₂ nanocomposite with high efficient photocatalytic performance for degradation of tetracycline from aqueous streams” M.Rathod, **Pareshkumar G Moradeeya**, Priyanka P. Presentation in “Third National Seminar on Advanced Oxidation Process” (17th-19th December, 2017) organized by Department of Chemistry, Bharathidasan Institute of Technology, Anna University, Tiruchirappalli. In associate with Society for Environmental Chemistry and Allied Sciences, (SECAS), India
 - “A two-stage batch adsorber design for methylene blue adsorption on spent tea leaves” Manvita Ditya Vadrevu. **Pareshkumar G Moradeeya**. Harirama Kumar.K.S. Chalapati Rao RamyaSanam, Shaik Basha poster presentation in National symposium on “emerging environmental challenges: An engineering approach (eec-2018)”organized by CSIR NEERI HZC and Department of Chemical Engineering BITS Hyderabad
 - “In situ-polymerized Aniline on Nanocellulose -with micro emulsion technique retreat composite for adsorption of agrochemical from water” **Moradeeya, P. G.**, Sharma, A., & Basha, Shaik, in the session of water quality and wastewater management at 7th Go Green Summit organized by international society of Environmental Relationship and suitability (ISERS) (2021)
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Award and Achievements:

- Obtained A+ grade in Environment & Disaster Management Examination as a part of B.Sc. curriculum
 - Best Project Assistant of the year 2017-2018 at CSIR NEERI HZC
 - Awarded in recognition of the significant contribution to National Symposium on “Emerging Environmental Challenges: An Engineering Approach (EEC 2018)” On 16th February, 2018, jointly organized by CSIR-National Environmental Engineering Research Institute (NEERI), Hyderabad Zonal Centre and department of Chemical Engineering, BITS Pilani, Hyderabad Campus, Hyderabad
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Published Papers:

- **Moradeeya, P. G.**, Kumar, M. A., Thorat, R. B., Rathod, M., Khambhaty, Y., & Basha, S. (2017). Nanocellulose for biosorption of chlorpyrifos from water: chemometric optimization, kinetics and equilibrium. Cellulose, 24(3), <https://doi.org/10.1007/s10570-017-1197-x1319-1332>.
- Rathod, M., **Moradeeya, P. G.**, Haldar, S., & Basha, S. (2018). Nanocellulose/TiO₂ composites: preparation, characterization and application in the photocatalytic degradation of a potential endocrine disruptor, mefenamic acid, in aqueous media. Photochemical & Photobiological Sciences, 17(10), 1301-1309. <https://doi.org/10.1039/c8pp00156a>
- **Moradeeya, P. G.**, Sharma, A., Kumar, M. A., & Basha, S. (2022). Titanium dioxide based nanocomposites– Current trends and emerging strategies for the photocatalytic degradation of ruinous environmental pollutants. Environmental Research, 204, 112384. <https://doi.org/10.1016/j.envres.2021.112384>
- **Moradeeya, P. G.**, Kumar, M. A., Sharma, A., & Basha, S. (2022). Conductive polymer layered semiconductor for degradation of triclopyr acid and 2, 4-dichlorophenoxyacetic acid from aqueous stream using coalesce adsorption-photocatalysis technique. Chemosphere, 298, 134360. <https://doi.org/10.1016/j.chemosphere.2022.134360>
- **3 articles under review*

References:

Dr. Shaik Basha

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DECLARATION

I declare that the statements made in this application are true to the best of my knowledge and belief. I understand that misleading or wrong information supplied may lead to summarily rejection of application / appointment if found subsequently.



(Moradeeya Pareshkumar G)

Annexure I

Job Description

November 2014 -January 2017

Title: **“Characterization and testing of Nanocellulose for removal of pesticide in model and real waste water”,
Department of Science and Technology, India (DST)**

Responsibility: Synthesis and Characterization of Nanocellulose
Selection of Herbicides (Chlorpyrifos, Diazinon, and Cypermethrin) and development of detection/analysis method
Adsorption of Herbicides by Nanocellulose and surface modify Nanocellulose
Testing of real Herbicides effluent and treatment by Nanocellulose
Draft quarterly report and presentation of project

Outcomes: Successfully removed all three pesticides in batch mode and column-continuous mode
Published research article and presented work in international conferences

January 2017-November 2019

Title (1) **“EIRA study for BS-VI auto Fuel Quality Compliance and Associated Project Facilities at Mangalore Refinery and Petrochemical, Karnataka, India”**

Title (2) **“Environmental assessment/Environmental Management Plan (EMP) compliance/monitoring of various parameters for project Varsha at NAOB Rambilli, Visakhapatnam, Andhra Pradesh, India”**

Responsibility: As a project assistant, I've worked on field surveys, sample collecting, study field mapping (basic), and water quality testing of River, Ground, Marine, and industrial wastewater, for various EIA and EMP projects. I was in charge of supervising and training new joining Project assistant and interns.

Learned Instruments during this project:

Air Quality Monitoring: (PM 10, PM 2.5 particulate matter, and gases parameters for (SO₂, NO₂, NH₃, H₂S, HCL, Cl₂, O₃), VOC meter,

Soil Quality Analysis: KJELDATHERM for Nitrogen estimation,

Noise Monitoring: Noise meter,

Water Analysis: UV-Visible Spectrophotometers, Flame Photometer, HPCL, ICP-OES, GC-FID.

Contributed to the sampling, analysis work and comprehensive reporting in the following projects.

- Ground water Quality Modelling and Assessment of Contamination in Choutuppal Industrial Area
- Environmental Assessment of ARCI Complex as per TSPCB Consent order
- Assessment of Environmental Impacts in and around Kohlar Industrial Area, Bidar District, Karnataka
- Environmental Impact Assessment Studies for establishment of CETP and selection of marine outfall location for discharge of treated effluent from proposed CETP, Bhimavaram, Andha Pradesh.
- Assessment of Ground water quality in and around Laxness and Geo-Chemical modelling studies for laxness India Private Limited., Nagda. Madhya Pradesh
- Assessment of Ground Water Quality in and Around Grasim Industries Limited at Nagda –Madhya Pradesh
- Environment and Community health assessment study in and around Rajpura Dariba Complex and surrounding mines (S-K and R -D) of M/s Hindustan Zinc Ltd., Rajasmand District, Rajasthan

- Environment and Community health assessment study in and around Chanderiya Lead and Zinc Smelter (CLZS) of M/s. Hindustan Zinc Limited Chanderiya, Rajasthan
- Evaluation of Water ATM's (Anytime Water Kiosks) installed in Hyderabad city, Telangana State.
- EIA for strengthening (Re-Construction) of Jetties at Eastern Novel Command Vizag
- Adequacy assessment for SBP/AAC plant capacities and the proposed PAC unit at Grasim industries, Rehla, Jarkhand
- Groundwater and soil quality assessment studies in and around Nichino chemical India private limited
- Study of lakes of Bangalore city for protection, restoration and rejuvenation as per directives of Honorable High Court of Karnataka
- Action plan for Rejuvenation of River stretches in Telangana State
- Groundwater Quality Assessment Studies in And Around NTPC- Simhadri, Visakhapatnam, Andhra Pradesh.
- Groundwater Quality Assessment around Bhagiradha Chemicals and Industries Limited, Ongole, Prakasham District, Andhra Pradesh
- Feasibility Study for Insatllaed Piezometric wells in and around Divis Laboratories Ltd, Lingo jigudem Village, Choutuppal Mandal Telangana
- Abatement of pollution to the Drain to water bodies and River Musi in Hyderabad-Implementation of In-Situ Remediation using RENEU and Phytorid Technology of NEERI-Preparation of DPR's for 5 Lakes of Hyderabad