

# Curriculum Vitae



## **Mr. Karan Chabhadiya**

M. Tech. (Environmental Engineering)

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### **Career Objective**

A postgraduate seeking an opportunity to serve at a responsible position in an organization where I can grow and contribute to its development. Motivated to offer quality provisions focused on the environment, health and safety issues.

### **Research Interest**

Renewable Energy, Sustainable Development, Air Pollution Monitoring and Sampling, Solid Waste Management and Community based Sustainable Projects.

### **Education**

#### **2017-2019 Master of Technology (M. Tech.)**

Marwadi University, Rajkot, Gujarat, India.

**CGPA: 8.19**

#### **2013-2017 Bachelor of Engineering (B.E.)**

Marwadi Education Foundation Group of Institutions, Rajkot, Gujarat, India.

**CGPA: 7.17**

### **Experience**

1. Environment Engineer at Safar Polyfibre Pvt. Ltd (July 2021 – Present).
2. CETP manager at Jetpur Dyeing and Printing Association, Jetpur, Gujarat (June 2020 – September 2020).
3. Industrial trainee at Shree Ganesh Remedies Ltd., Ankleshwar, Gujarat (June 2019 – March 2020).
4. 3 months internship at EduCARE India, Dharamshala, Himachal Pradesh (June 2018 – September 2018).
5. 2 weeks internship at TATA Chemicals, Mithapur, Gujarat (May 2017 – June 2017).

## Projects Undertaken

### 1. B. E. Dissertation

Physical and Chemical Characterization of Soil and Ground Water Affected by Textile Effluent at Jetpur (Gujarat).

### 2. M. Tech. Dissertation

Recovery of valuable metals from spent Li-ion batteries of mobile phones.

## Publications

### Journal

1. Janiyant Lunagariya, **Karan Chabhadiya**, Pankaj Pathak, Deepak Mashru, "Application of Taguchi Method in Activated Carbon Adsorption Process of Phenol Removal from Ceramic Gasifier Wastewater", *Journal of Environmental Challenges* (2022), (<https://doi.org/10.1016/j.envc.2022.100450>).
2. **K. Chabhadiya**, R.R. Srivastava, P. Pathak (2021) "Two-step leaching process and kinetics for an eco-friendly recycling of critical metals from spent Li-ion batteries." *Journal of Environmental Chemical Engineering*, (<https://doi.org/10.1016/j.jece.2021.105232>). IF 5.909.
3. Pathak, P., Singh, V.K. & **Chabhadiya, K.** "Sequential Leaching of Strategic Metals from Exhausted LNCM-Cathode Batteries Using Oxalic and Sulfuric Acid Lixiviants." *JOM 73, 1386-1394* (2021) (<https://doi.org/10.1007/s11837-021-04631-z>). IF 2.471.
4. S. Gautam, A. Talatiya, M. Patel, **K. Chabhadiya**, P. Pathak. "Identification of personal exposure to air pollutants from bonfire during the winter season of rural area of Gujarat, India." *Expo Health 12, 89-97* (2020) (<https://doi.org/10.1007/s12403-018-0287-9>). IF 11.422.
5. **K. Chabhadiya**, R.R. Srivastava, P. Pathak (2020) "Growth projections against set-target of renewable energy and resultant impact on emissions reduction in India." *Environmental Engineering Research*, (<https://doi.org/10.4491/eer.2020.083>). IF 2.507.

### Book Chapter

6. Pathak P., **Chabhadiya K.** (2021) Recycling of Rechargeable Batteries: A Sustainable Tool for Urban Mining. In: Baskar C., Ramakrishna S., Baskar S., Sharma R., Chinnappan A., Sehrawat R. (eds) *Handbook of Solid Waste Management*. Springer, Singapore. ([https://doi.org/10.1007/978-981-15-7525-9\\_74-1](https://doi.org/10.1007/978-981-15-7525-9_74-1)).
7. Govani J., Patel H., Pujara Y., **Chabhadiya K.**, Pathak P. (2020) Technological Upgradation and Advancement for Treatment of Plastic Waste in Developing Countries. In: Hussain C. (eds) *Handbook of Environmental Materials Management*. Springer, Cham. ([https://doi.org/10.1007/978-3-319-58538-3\\_226-1](https://doi.org/10.1007/978-3-319-58538-3_226-1)).

8. Pujara Y., Govani J., **Chabhadiya K.**, Patel H., Vaishnav K., Pathak P. (2020) Waste-to-Energy: Suitable Approaches for Developing Countries. In: Pathak P., Srivastava R.R. (eds) Alternative Energy Resources. *The Handbook of Environmental Chemistry, vol 99. Springer, Cham.* ([https://doi.org/10.1007/698\\_2020\\_611](https://doi.org/10.1007/698_2020_611)).
9. **Chabhadiya K.**, Pujara Y., Patel H., Govani J., Pathak P., Mashru D. (2021) Different Treatment Technologies Used for Municipal Solid Waste Management in India. *Waste Management Policies and Practices in BRICS Nation.* (<https://doi.org/10.1201/9781003007579>).

### **Conference**

10. **K. Chabhadiya**, H.T. Patel, R. Niranjani, P. Pathak (2019) "Recovery of Precious Metal from Lithium-ion Battery: A Secondary Urban Resource." *National Environmental Conference (NEC-2019)*, IIT Bombay.
11. J. Govani, H.T. Patel, **K. Chabhadiya**, U. Jadeja, P. Pathak (2019) "Transformation of Industrial Waste into Alternate Resource: A Critical Review." *National Environmental Conference (NEC-2019)*, IIT Bombay.
12. **K. Chabhadiya**, P. Pathak (2019) "Physical, Chemical, Biological Characterization Of Soil And Ground Water Affected By Textile Effluent at Jetpur, Gujarat." *2<sup>nd</sup> National Conference on Industrial Pollution and Control Technology (IPACT-2019)*, Chennai, India.
13. J. Govani, A. Bhimani, P. Pathak, **K. Chabhadiya**, Y. Pujara (2019) "Assessment based on Circular Economy to minimize the Construction and Demolition Waste." *4<sup>th</sup> International Conference on Sustainable Energy and Environmental Challenges, CSIR-NEERI*, Nagpur.

### **Courses**

1. Learning How to Learn by McMaster University, UC San Diego, USA, 2020.
2. Introduction to Sustainability and Development by Deakin University, Australia, 2020.
3. Digital Skills: Digital Marketing by Accenture, 2020.
4. StartUp India Learning Program by UpGrad, 2020.
5. Cleaner Production Assessor at Gujarat Cleaner Production Centre (GCPC) and Akash Dyes and Intermediates (Ahmedabad), 2021.
6. Certified training of ISO 17025:2017, 2021.

### **Conferences/Seminars/Workshops**

1. **Workshop** on "Sensitization in Industrial Wastewater Treatment Processes and Cleaner Technology", 2014, Marwadi Education Foundation, Rajkot, Gujarat.
2. 3 days **Nature Education Camp (NEC)** at Gujarat Ecological and Education Research Foundation (GEER), 2015, Gandhinagar, Gujarat.
3. **International Conference**, Enviro Tech Asia 2016, Gandhinagar, Gujarat.

4. **Workshop** on Advances in Textile Technologies (IITRAM), 2017, Ahmedabad, Gujarat.
5. A **State Level** Technical and Cultural Symposium, 2017, held at Marwadi University, Rajkot, Gujarat.
6. 2 weeks **internship** at TATA Chemical, Mithapur, Dwarka, Gujarat, 2017.
7. **Short Term Training Program (STTP)** on “Advanced Strategies for Sustainable Water & Waste-Water Management”, at Marwadi Education Foundation, Rajkot, Gujarat, 2017.
8. 2 days **workshop** on “Sustainable Technologies for Noise & Air Pollution Challenges” in association with GPCB and ISTE, 2017, held at Darshan Institute, Rajkot, Gujarat.
9. 3 days **workshop** on “Assessment of Environmental, Occupation Health and Safety”, 2017, GIDM, Gandhinagar, Gujarat.
10. 1<sup>st</sup> Annual **Scientific Summit** on Advances in Biology and Chemistry (ABC 2018), 2018, held at Marwadi University, Rajkot, Gujarat.
11. 3 months **internship** at EduCARE India, SWASH Village, Dharamshala, Himachal Pradesh, 2018.
12. IUCEE Scale Regional Student **workshop** 2018 on “21<sup>st</sup> Century Grand Challenges in Engineering”, at Marwadi University, Rajkot, Gujarat, 2018.
13. 3 days **workshop** on “Personal Finance Success Boot Camp”, held at Marwadi University 2019, Rajkot, Gujarat.
14. 2 days **International Workshop** on “Assessment of Environmental, Occupational Health and Safety” held at NEERI, Nagpur, 2019.
15. **National Environmental Conference**, 2019, IIT Bombay, Mumbai.
16. **2<sup>nd</sup> National Conference** on Industrial Pollution and Control Technology (IPACT-2019), Annamalai University, Chidambaram, Tamil Nadu.
17. **TEQIP III Sponsored STTP** on “Waste to Energy: Fuel Cell and Electrochemical Techniques”, 2019, at SVNIT, Surat, Gujarat.
18. A **training program** on “Basics of EIA: Tools and Technique” organized by Biohm Consultant Pvt. Ltd. on 12<sup>th</sup> August 2019, Surat.
19. 2 days **national seminar** on “Sustainable Water & Waste Management”, 2019, SLTIET, Rajkot.
20. 5 days **STTP** on “Environment Challenges & its Sustainable Management”, 2019, held at Marwadi University, Rajkot.
21. **DST & ACS** organized a **workshop** on “early career researcher focusing on scholarly publishing, peer review, ethics and plagiarism”, 2019, CSIR-CSMCRI, Bhavnagar.
22. A brainstorming **workshop** on “E-Waste Management in India”, 2020, held at NEERI, Nagpur.

### **Industries/Treatment Plant Visits**

1. GEMI (Gujarat Environmental Management Institute), Gandhinagar.
2. GEER (Gujarat Ecological Education and Research) Foundation, Gandhinagar.
3. TATA Chemicals, Mithapur.
4. Common Effluent Treatment Plant, Vapi.

5. Common Effluent Treatment Plant, Jetpur.
6. Sewage Treatment Plant (STP), Rajkot.
7. Ambuja Cement, Kodinar.
8. CWPRS (Central Water and Power Research Station), Pune.
9. Renuka Sugars, Gandhidham.
10. Integrated Common Hazardous Waste Management & Disposal Facilities (Detox Group), Gandhidham.
11. Indian Rayon, Veraval.
12. Makardhokda Open Coal Mine, Umred, Nagpur.
13. Sewage Treatment Plant (STP), Surat.
14. Welspun, Bhuj.
15. Akash Dyes and Intermediates, Ahmedabad.

### **Professional Membership**

1. MIET (The Institution of Engineering and Technology) ID: 1100663348
2. ACS (American Chemical Society) ID: 32160281

### **Professional Skills**

1. Minitab (Beginner Level)
2. OriginPro (Beginner Level)
3. Life Cycle Assessment (Beginner Level)
4. SPSS (Beginner Level)
5. WindRose
6. Microsoft Office
7. Photo and Video Editing

### **Supplementary Skills**

1. Good Presentation and Listening Skills
2. Team Player
3. Good at Planning and Organizing
4. Calm and Positive Attitude
5. Marathoner
6. Fitness Enthusiast

## References

### **Dr. Pankaj Pathak**

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### **Dr. Amarpreet Singh Arora**

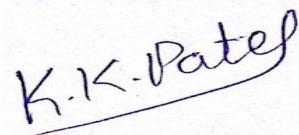
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## Declaration

I, hereby declare that the above-mentioned specifics are true to the best of my knowledge and belief.



Signature