

## Objective!

Secure a responsible career opportunity to fully utilize my knowledge, training and skills, while making a significant contribution to the success of the organisation.



### EDUCATION

Degree	Dept.	Percentage	University	Year
10 <sup>th</sup>		80.6	MP Board	2006
12 <sup>th</sup>	Maths Science	84.4	MP Board	2008
B Tech	Agricultural Engg	76.1	JNKVV Jabalpur	2012
M Tech	Aquacultural Engg	8.16	IIT Kharagpur	2014
PhD	Environmental Engg	Thesis Completed	IIT Guwahati	2021
ICAR-NET	Agri. Structures & Environmental Control	Qualified	ICAR	2014
ICAR-NET		Qualified	ICAR	2018

### Research Skills

Environmental Engineering, Waste Water Treatment, Process Chemistry, Water quality Management, Sulfate and Hazardous Waste Removal, Attached Growth Process, Industrial Pollution Control, Anaerobic Digestion of Agricultural Waste, Handling of paper mill sludge and its management, Sulfate, Nitrate, Arsenic Removal, Pretreatment of Lignocellulosic Waste



### Research Publication

- Bhande, R., & Ghosh, P. K. (2018). Oxyanions removal by biological processes: A review. In Water Quality Management (pp. 37-54). Springer, Singapore.
- Bhande, R., Noori, M. T., & Ghangrekar, M. M. (2019). Performance improvement of sediment microbial fuel cell by enriching the sediment with cellulose: Kinetics of cellulose degradation. Environmental Technology & Innovation, 13, 189-196.
- Shakya, A. K., Bhande, R., & Ghosh, P. K. (2020). A practical approach on reuse of drinking water treatment plant residuals for fluoride removal. Environmental technology, 41(22), 2907-2919.
- Bhande, R., & Ghosh, P. K. (2020). Anaerobic digestion of rice straw in presence of sulfate containing environment. Indian Chemical Society, 97 (3), 446-449.



### Conferences

- Bhande, R., & Ghosh, P. K. Oxyanions removal by biological processes: A review, ICWEES, AISECT University Bhopal,
- Bhande, R., & Ghosh, P. K.: Autoclave assisted thermal pretreatment of Rice Straw for Anaerobic Digestion, NEC, 2019, IIT Bombay.
- Bhande, R., & Ghosh, P. K. Potential Application of Agri. Waste as a Carbon Source for removal of Sulfate & Co-Contaminates, WEES 2020, NIT Durgapur.



### Best Oral Presentation Award

- Bhande, R., & Ghosh, P. K. Potential Application of Agri. Waste as a Carbon Source for removal of Sulfate & Co-Contaminates, WEES 2020, NIT Durgapur



### Membership

- Aqua cultural Engineering Society
- IAWEES Society



### Member of Review Comity

- Journal of Revista Mexicana de Ingeniería Química



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### Award

- District level topper for 12<sup>th</sup> class

### Fellowship

MHRD Fellowship in IIT Kharagpur and IIT Guwahati

### Expertise

XRD, FTIR, EDX, FETEM, AAS, Spectrophotometer, HPLC

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### PERSONAL SKILLS

- Communication
- Teamwork
- Creativity
- Leadership
- Management

### References

- Dr. PK Ghosh, Professor, Department of Civil Engineering, IIT Guwahati.
- Dr.MM Ghangrekar, Professor, Department of Civil Engineering, IIT Kharagpur.