

## **Brief Bio-data**

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### **Academic Qualifications:**

<b>Degree</b>	<b>College/Institute</b>	<b>Board/University</b>	<b>Year of passing</b>
<b>Ph. D.</b>	Department of Agricultural & Food Engineering	IIT Kharagpur	2014
<b>M. Tech.</b> (Aquacultural Engineering)	Department of Agricultural & Food Engineering	IIT Kharagpur	2009
<b>B. Tech.</b> (Agricultural Engineering)	College of Agricultural Engineering Pusa, Bihar	Dr. Rajendra Prasad Central Agricultural University, Pusa Bihar	2007
<b>H.S.C. (10+2)</b>	S. M. College Hajipur, Vaishali	Bihar Intermediate Education Council Patna	2002
<b>S.S.C. (10<sup>th</sup>)</b>	R.N.P. high School, Jalalabad, Asarganj	Bihar School Examination Board Patna	2000

### **International Publications:**

1. **Avinash Kumar**, S. Moulick and B.C. Mal. 2010. Performance evaluations of propeller-aspirator pump aerator. *Aquacultural Engineering (Elsevier)*, 42(2): 70-74.
2. **Avinash Kumar**, S. Moulick, B.C. Mal, C.K Mukherjee and Sangeeta Pati. 2012. Aeration cost of propeller-aspirator pump aerator at optimum geometric and dynamic conditions. *International Journal of Bioscience, Biochemistry and Bioinformatics*, 2(4): 232-236.

3. **Avinash Kumar**, S. Moulick, B.C. Mal and C.K Mukherjee. 2012. Optimization of positional angle of propeller–aspirator pump aerator and its performance evaluation at different dynamic condition. *International Proceedings of chemical, Biological and Environmental Engineering (IPCBE)*, 2012, 32, 155-159
4. **Avinash Kumar**, S. Moulick, Basant K. singh and B. C. Mal. 2013. Design characteristics of pooled circular stepped cascade aeration system. *Aquacultural Engineering (Elsevier)*, 56: 51-58.
5. **Avinash Kumar**, S. Moulick, and B. C. Mal. 2013. Selection of aerators for intensive aquacultural pond. *Aquacultural Engineering (Elsevier)*, 56: 71-78.
6. Manoj Prabhaka, Sudipto Sarkar, Laxmi Narayan Sethi and **Avinash Kunmar** 2015. Ammonia Removal from Aquaculture Waste Water using Coconut Coir Media in Lab-Scale Batch Reactors. *Journal of Energy Research and Environmental Technology*. 2 (1): 30-34.
7. Deepak Kumar, **Avinash Kumar**, Sudipto Sarkar, Dibakar Mohodi, Pal Thakuria and Jurimoni Das. 2015. Optimal design of flow rate in drip irrigation system to enhance the tomato cultivation. *International Journal of Agriculture, Environment and Biotechnology*. 8(1): 11-19.
8. Himanta Doley and **Avinash Kumar**, Mahuwa Ghosh and Aparna Das. 2015. Performance evaluation of Inclined cascade Aerator (ICA), *Journal of Basic and Applied Engineering Research*. 2(11): 941-946.
9. Jyotirmoy Goyary, **Avinash Kumar** and Prakash kumar Nayak. 2015. Changes of quality parameters of soybean oil in deep fat frying: A review. *Journal of Basic and Applied Engineering Research*. 2(11): 951-954.
10. Himanta Doley and **Avinash Kumar**. 2015. Development of Inclined Cascade Aerator. *Journal of Basic and Applied Engineering Research*. 2(11): 947-950. April-June 2015
11. S. Sarkar, **Avinash Kumar**, Deepak Kumar, L. N Sethi, M. M Hazarika and G. Das. 2015. Optimal Size of Fish Pond for Socio-Economical Development of Cachar (Assam). *International Journal of Agriculture, Environment and Biotechnology*. 8(2): 405-411.
12. **Avinash Kumar** , Deepak Kumar, Sudipto Sarkar. 2015. Fish Production Analysis of Cachar District (Assam) Using Fuzzy C-Mean Clustering. *International Journal of Agriculture Sciences*. 7 (9): 693-697.
13. Anamika Yadav, Sudipto Sarkar, **Avinash Kumar**. 2016. Influence of Throat Hole Parameters on The Performance of Venturi Aerator. *International Journal of Advanced Technology in engineering and Science*, 4 (9): 54-60.

14. Diplina Paul, Laxmi N. Sethi, Bhaskar J. Deka, Sudipto Sarkar and **Avinash Kumar**. 2017. Impact of climate change on yield of different crops grown in Cachar district of Assam, India. *Archives of Agriculture and Environmental Science*, 2(4): 330-335.
15. Amarjyoti Khound, Anamika Yadav, Sudipto Sarkar and **Avinash Kumar** 2017. Influence of Throat Length and Flow Parameters on a Venturi as an Aerator. *International Journal of Agriculture, Environment and Biotechnology*. 10 (6): 717-723.
16. **Avinash Kumar**, Sahijul Islam, Kshirod Kumar Dash and Sudipto Sarkar. 2017. Optimization of Process Parameters for Osmotic Dehydration of Chayote Cubes by Response Surface Methodology. *International Journal of Agriculture, Environment and Biotechnology*. 10 (6): 725-737.
17. Sahijul Islam, **Avinash Kumar**, Kshirod Kumar Dash, Saddam Alom. 2018. Physicochemical analysis and nutritional properties of fresh, osmo-dehydrated and dried chayote (*Sechium edule* L.). *Journal of Post-Harvest Technology*. 6 (2), 49-56.
18. Mrinmoy Roy, Himjyoti Dutta, Rangarajan Jaganmohan, Monisha Choudhury Nitin Kumar, **Avinash Kumar**. 2019. Effect of steam parboiling and hot soaking treatments on milling yield, physical, physicochemical, bioactive and digestibility properties of buckwheat (*Fagopyrum esculentum* L.). *Journal of Food Science and Technology (Springer)*. 56 (7): 3524–3533.
19. Florence Akangle Panme, Laxmi Narayan Sethi, Anamika Yadav, **Avinash Kumar**, Sudipto Sarkar. 2019. Effect of Raindrop Diameters and Slopes on Runoff and Soil Loss In A Hilly Terrain. *International Journal of Scientific & Technology Research*. 8 (09): 1552-1554.
20. Anamika Yadav, **Avinash Kumar**, Sudipto Sarkar. 2019. Design Characteristics of Venturi Aeration System. *International Journal of Innovative Technology and Exploring Engineering*. 8 (11): 63-70.
21. Amina Khatun, Ravi Pratap Singh and **Avinash Kumar**. 2019. Development of a low-cost evaporative cooling storage structure for perishable commodities. *Food Science Research Journal*. 10 (2): 221-231.
22. Anamika Yadav, **Avinash Kumar** and Sudipto Sarkar. 2020. An experimental study to evaluate the efficacy of air entrainment holes on the throat of a venturi aeration system. *Aquaculture International (Springer)*. 28: 1057-1068.
23. Anamika Yadav, **Avinash Kumar** and Sudipto Sarkar. 2021 Performance evaluation of venturi aeration system. *Aquacultural Engineering (Elsevier)*. 93.
24. Anamika Yadav, **Avinash Kumar** and Sudipto Sarkar. 2021. Determination of Standard Oxygen Transfer Rate in Venturi Aeration System. *IOP Conference Series: Materials Science and Engineering Paper*. 1017.