




भारतीय प्रौद्योगिकी संस्थान खड़गपुर
INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Summary of Application submitted for reviewing for the position: Assistant Professor
in the Dept./Centre/School/Academy: Department of Agricultural and Food Engineering

1. NAME IN FULL: JAYRAJ P.		Date of Birth:	27-07-1992
	Address:	Nationality:	India
	✉ jairaj.jp@gmail.com ☎ +919738861355	Category: GEN/SC/ST/OBC/EWS/PwD (Please write)	GENERAL

2. EDUCATIONAL QUALIFICATIONS:

Degree / Examination	University / Institution	Year	Specialization	Division / Class	% of Marks	Rank in Board / University
Ph.D.	Indian Institute of Technology Khargapur	2021	Aquacultural Engineering		-	
M.Tech. or Equiv./ M.Sc. / M.S.	Indian Institute of Technology Khargapur	2016	Aquacultural Engineering	Distinction	85.9	
B.Tech. or Equiv./ B.Sc. / B.A.	University of Agricultural Sciences Raichur	2014	Agricultural Engineering	Distinction	89	
10+2 or Equivalent	Vidya Bharathi Shikshana Kendra Raichur	2010	Physics, Chemistry, Mathematics and Computer Science	First class	78.5	3
10 th or Equivalent	Janaseva Vidya Kendra	2008	Science, Mathematics and Social Sciences	Distinction	88.96	

3. EXPERIENCE (Please indicate the latest first. Please indicate non-overlapping duration only)

University / Organization	Designation	From	To	Total Period	Nature of Experience
College of Fisheries Science Gumla, Birsa Agricultural University	Assistant Professor & Junior Scientist	14-12-20	Continuing	2 Year 4 Months	Teaching, Research and Extension
	Professor in-charge of Fisheries Engineering Laboratory	23-02-21	Continuing	2 Year 2 Months	I had the privilege of developing the lab from its very beginning. With a keen focus on collaboration and fostering growth, I helped establish a laboratory that

					serves as a foundation for education within the fisheries engineering field.
	Assistant Librarian	23-02-21	Continuing	2 Year 2 Months	I have been responsible for maintaining discipline, providing guidance and support to students, and ensuring a safe and comfortable living environment.
	Deputy Warden (Boy's Hostel)	13-04-22	Continuing	1 Year 1 Months	I have been responsible for managing and maintaining the college library, including cataloguing books, managing student records, and assisting students in finding the resources they need for their studies.
Continuing Education Programme (CEP), IIT Kharagpur, West Bengal, India	Teaching Assistant	4 th June	21 st June	17 days	Teaching assistant in the short-term course on "Modelling and Simulation using SolidWorks"

4. TEACHING INTEREST (Subjects taught / teaching)

1. At the Diploma level

Subject	Course Code	Credit Hours (Theory + Practical)
1. Farm Construction and Engineering	ADAQ - 033	6 (3+3)

2. At the undergraduate level

Subject	Course Code	Credit Hours (Theory + Practical)
1. Aquacultural Engineering	FFE - 81	3 (2+1)
2. Fishing Craft Technology	FFE - 41	2 (1+1)
3. Fishing Gear Technology	FFE - 51	2 (1+1)
4. Refrigeration and Equipment Engineering	FFE - 61	2 (1+1)
5. Fishing Technology	FFE - 62	2 (1+1)
6. Navigation and Seamanship	FFE - 63	2 (1+1)

5. ACADEMIC OR PROFESSIONAL AWARDS (HONOURS)

6. PUBLICATIONS	Number completed	Number under review
(a) Publication in refereed journals	3	2

(b) Publications in proceedings of seminars / conferences	-	-
(c) Books and Monographs	-	-
(d) Patent / Copyright obtained / filed	-	1
(e) Practical manual	2	1
Please attach a copy of the updated list of publications		
7. RESEARCH GUIDANCE*	Number completed	Number in progress
(a) Guidance at Doctoral level	-	-
(b) Guidance at Masters level	-	-
(c) Guidance at Graduation level	2	2
* Place an asterisk by the side of the number for guidance jointly offered with another faculty.		

8. SPONSORED RESEARCH AND CONSULTANCY PROJECTS UNDERTAKEN						
9. ANY OTHER INFORMATION WHICH YOU WISH TO BRING TO THE NOTICE OF THE SELECTION COMMITTEE						
9.1. PUBLICATIONS						
	Title	Authors and year	Year	Journal name	Impact factor	Nos. of citations
1.	Design Characteristics of Submersible Aerator	Jayraj P., S. M. Roy., C. K. Mukherjee, & B. C. Mal	2018	Turkish Journal of Fisheries and Aquatic Sciences	1.423	16
2.	Measurement of Morphometric Dimensions and Mechanical Properties of Rohu Fish for Design of Processing Machines.	Jayraj P., Rajendra Machavaram, Gourav Sahu and Vikas Paradkar	2019	Journal of Aquatic Food Product Technology	1.767	2
3.	Diversified aeration facilities for effective aquaculture systems—a comprehensive review.	Roy, S. M., Jayraj, P., Machavaram, R., Pareek, C. M., & Mal, B. C.	2021	Aquaculture International	2.235	15
4.	Development of a small-scale fish filleting machine for rohu (<i>Labeo rohita</i>) fish	Jayraj, P. & Machavaram R.	2021	Journal of Aquatic Food Product Technology	1.767	Under review
5.	Development of a small-scale fish filleting equipment for developing-country fish farmers	Jayraj, P. & Machavaram R.	2022	Journal of Aquaculture Engineering	3.273	Under review
9.2. TRAININGS UNDERGONE						
1. "Improved Fishing Crafts and Gears" Conducted by Central Institute of Fisheries Technology (CIFT) Mumbai.						
2. "Improved Techniques of Production of Value-Added Fish Products" Conducted by CIFT Mumbai.						
3. "By-Catch Reduction in Fisheries: Recent Advances" Conducted by CIFT Cochin.						
4. "Institutional Training on Soil and Water Conservation and Watershed Management" Conducted by Central Soil and Water Conservation Research and Training Institute.						
5. "Intensive Training on Agricultural Mechanization" Conducted by Southern Region Farm Machinery Training and Testing Institute.						

9.3. CONTRIBUTION TO NON-TEACHING WORK

1. Professor in-charge of Fisheries Engineering Laboratory, College of Fisheries Science (COFS) Gumla, Birsa Agricultural University (BAU), Jharkhand.
2. Assistant Librarian, College of Fisheries Science (COFS) Gumla, Birsa Agricultural University (BAU), Jharkhand.
3. Deputy Warden (Boy's Hostel), College of Fisheries Science (COFS) Gumla, Birsa Agricultural University (BAU), Jharkhand.

9.4. SERVICE RENDERED TO OTHER INSTITUTIONS AND ORGANIZATIONS

1. Assigned the role of setting examination papers for undergraduate courses in the Fisheries Engineering Department at the College of Fisheries, Central Agricultural University (CAU), Lembucherra, Agartala, Tripura West.
2. Appointed as an external paper setter for the Theory Examination of the UG Course - Farm Machinery and Power at GLA University, located on Mathura-Delhi Road, Mathura, Uttar Pradesh (U.P.).

9.5. TECHNOLOGY TRANSFER

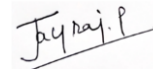
	Topic	Beneficiaries	Sponsor	Location	Approx. No. of people/Batch
1.	Common gears and crafts used in fish harvest (Freshwater fish farming)	Fish farmers	Birsa Agricultural University, Ranchi, Jharkhand	College of Fisheries Science Gumla, Birsa Agricultural University, Jharkhand	5
2.	Packaging of prepared fish pickles (Value addition of freshwater fishes)	Tribal fish farmers	Indian Council of Agricultural Research (ICAR) - Central Institute of Fisheries Technology (CIFT), Kochi, Kerala	College of Fisheries Science Gumla, Birsa Agricultural University, Jharkhand	25

10. SALARY DETAILS of present (or last) position: Assistant Professor & Junior Scientist, COFS, BAU, Jharkhand

Scale of pay / Pay Band & Grade Pay / Consolidated: Rs. 68000/-

Basic Pay (if applicable):

Allowances (if applicable):

Date: 24-03-2023_____
Signature of the Candidate