Profile

Name:	Dr. Pankaj Kumar
Designation	Scientist (SS), ARS
Qualification	B.F.Sc., GBPUAT, Pantnagar M.F.Sc. (Fish Nutrition & Biochemistry), CIFE, Mumbai Ph.D. (Fish Nutrition & Biochemistry), CIFE, Mumbai
E mail address	Pankaj.Kumar4@icar.gov.in, pankajkumardcfr@gmail.com
Affiliation:	ICAR-Directorate of Coldwater Fisheries Research
Research and Academic Experience:	❖ 10 years of experience in inland saline aquaculture nutrition, academics, teaching, research and extension activities. ❖ Attended several national as well as international workshops/conferences/training programs.
Research Area:	❖ Inland Saline Aquaculture Nutrition ❖ Restricted Feeding Strategies ❖ Cost effective eco-friendly feeding ❖ Nutritional efficacy of agriculture by-product in fish nutrition
Students Guided	❖ M.F.Sc: 10 ❖ Ph. D.: 02
Publications	❖ Research Paper: 23 (International -15, National -06, Review paper- 02) ❖ Book Chapter: 05 ❖ Popular Articles: 40 ❖ Extension leaflets/folders/ Brochure: 20 ❖ Short Communications: 02 ❖ Training Manuals: 07

Important 10 publications	❖ **Pankaj Kumar**, K. K. Jain, P. Sardar, N. P. Sahu, S. Gupta. 2017. Dietary supplementation of acidifier: effect on growth performance and haemato-biochemical parameters in the diet of *Cirrhinusmrigala* juvenile. *Aquaculture International*, 96: 1-16. (NAAS-8.9) ❖ **Pankaj Kumar**, K. K. Jain, P. Sardar, M. Jayant & N.C. Tok. 2017. Effect of dietary synbiotic on growth performance, body composition, digestive enzyme activity and gut microbiota in *Cirrhinusmrigala* (Ham.) fingerlings. *Aquaculture Nutrition,* 24(3): 921-929. (NAAS-9.5) ❖ **Pankaj Kumar**, K. K. Jain, P. Sardar. 2018. Effects of dietary synbiotic on innate immunity, antioxidant activity and disease resistance of *Cirrhinusmrigala* juveniles. Fish and Shellfish Immunology, 80: 124-132. (NAAS-10) ❖ M. Jayant, M.A. Hassan, P.P. Srivastava, D.K. Meena, **P. Kumar**, A. Kumar, M.S. Wagde. 2018. Brewer's spent grains (BSGs) as feedstuff for striped catfish, *Pangasianodonhypophthalmus* fingerlings: An approach to transform waste into wealth. Journal of Cleaner Production, 99, 716-722. (NAAS-17.1) ❖ R. Thirunavukkarasar, **Pankaj Kumar**, Parimal Sardar, Narottam Prasad Sahu, V. Harikrishna, Krishna Pada Singha, N. Shamna, Jane Jacob, Gopal Krishna. 2022. Protein-sparing effect of dietary lipid: Changes in growth, nutrient utilization, digestion and IGF-I and IGFBP-I expression of Genetically Improved Farmed Tilapia (GIFT), reared in Inland Ground Saline Water. Animal Feed Science And Technology. 284: 115-150 (NAAS-9.2) ❖ Adya Pandey, Mujahidkhan A. Pathan, P. S. Ananthan, Arun Sudhagar, Kishore K. Krishnani, K. Sreedharan, **Pankaj Kumar**, R. Thirunavukkarasar, V. Harikrishna. 2023. Stocking for sustainable aqua- venture: optimal growth, yield and economic analysis of *Penaeus vannamei*culture in inland saline water (ISW) of India. Environment, Development & Sustainability. 110: 1-30 (NAAS-10.9) ❖ Saiprasad Bhusare, Parimal Sardar, Narottam Prasad

	Sahu, Nazeemashahul Shamna, **Pankaj Kumar**, Mritunjoy Paul, Prasanta Jana, N. Raghuvaran. 2023. Bile acid improves growth, lipid utilization and antioxidative status of genetically improved farmed tilapia (*Oreochromis niloticus*) fed with varying protein-lipid diets reared in inland saline water. Animal Feed Science and Technology.303: 115677 (NAAS-9.2) ❖ Susitharan V, Sreedharan Krishnan, **Pankaj Kumar**, Kapil Sukhdhane, A. Sathiya Kala A.M. Babitha Rani. 2024. Mineral supplementation in biofloc influences growth and haemato-biochemical indices of Genetically Improved Farmed Tilapia reared in inland saline ground water. Aquacultural Engineering. 104:102386 (NAAS- 10.0)
Special Award (If any):	❖ Received a letter of **appreciation** from the **Hon. Chief Minister of Punjab Sh. Parkash Singh Badal** and **Director & Warden of Fisheries, Punjab** for the research, demonstration and extension activities carried out on the "Technology for the commercial marine shrimp culture in inland saline waters" at Ratta Khera, Muktsar Sahib, District, Punjab. ❖ Received ICAR-CIFE Institutional Award, 2020-21 for Best Hindi Publication ❖ Received ICAR-CIFE Institutional Award, 2021-22for Best Young Scientist for Field Oriented Work ❖ Received ICAR-CIFE Institutional Award, 2022-23 for Best Centre of ICAR-CIFE
Professional Societies	❖ Life Member, Agricultural Research Service Scientists' Forum, India ❖ Life member of Professional Fisheries Graduates Forum (PFGF) a national body for fisheries graduates in India.

Any other remarkable point(s)	❖ Frontline Demonstration of commercial production farming of *L.vannamei* in saline affected areas of Haryana, Punjab, Rajasthan and Western UP. ❖ Protocol for raising of L.*vannamei* juveniles in nursery based system using inland saline water. ❖ The growth performance of common carp is genetically evaluated at three geographical locations with three different salinities.About 28 thousand advanced fingerlings of F1 generation produced from genetically selected high performing parents were distributed to various fish farmers (10 nos) of Haryana. ❖ Carried out techno-economicfeasibilityof biofloctechnologyinISA ❖ The methodology for inoculation and maintenance of biofloc in open poly-lined ponds were standardised.