Externally funded research projects undertaken by ICAR-CIFRI since 2016

Sr. No.	Project Title	Name of P.I./Nodal officer/coordinator/Programme Leader	Name of Co P.I.s /Associates/Technical Staffs	Total Budget (in Rs. lakhs)	Duration of Project	Funding Agency
1	Assessment of spawning behavior of major fish species in inland environments with a view to harness the beneficial effects of temperature	U. K. Sarkar	D.S.K. Rao,K.D. Joshi, B. K. Bhattacharjya, S. K. Nag, M. Naskar,M.Aftabuddin, A. Pandit, P. Panikkar, A.K. Shahoo, D. Sudheesan, A. K. Yadav, S. Das, D. Debnath, S.C.S. Das, G. Karnatak, Vaishakh G., Sibina S. Mol	533.12	2011-2016	NICRA
2	Strengthening of database and geographical information system of the fisheries sector	B.K. Das/V.R. Suresh (upto 29.07.16)	Malay Naskar, K. D. Joshi, B. K Bhattacharya, M. Karthikeyan, S. K. Sahu, D. N. Jha and Mishal, P.		2012-2017	DAHD&F: Database-GIS
3	Stock characterization, captive breeding, seed production and culture of Hilsa *(Tenualosailisha)*	V. R. Suresh	B. K. Behera, R. K. Manna, Sajina A. M and K. M. Sandhya	1435.247	2012-2017	NASF
4	Identification and characterization of aquaporin gene from freshwater catfish *Clarias batrachus* and their expression during reproduction	B. K. Behera	A.K. Sahoo	51.3	2013-16	DBT
5	National Agricultural Innovation Fund (NAIF) Component I	Ganesh Chandra	-	6.44 (2025-26)	2013-Continuing	*ICAR*
6	National surveillance programme for aquatic animal diseases	B. K. Behera	B. K. Das, A. K. Sahoo, P. Das, B. K. Bhattacharjya, P. K. Parida, Tanuja Abdullah	91.84	2014-22	NFDB-NSPAAD
7	All India Network Project on fish health	S. K. Manna	S. K. Nag, A. K. Bera, R. Baitha (upto 04.06.2025), P. Panikkar, D. Debnath (up to 28.2.2024)	188.80	2015-2026	ICAR
8	Assessment of fish and fisheries of the Ganga river system for developing suitable conservation and restoration plan (Phase I)	B. K. Das/KD Joshi	R. S. Srivastava, V. R. Suresh, R.K. Manna, D. N. Jha, A. Alam, SCS Das, Raju Baitha, Manas H. M., Mitesh Ramteke, T.N. Chanu and H. S. Swain	580	2016-2020	*NMCG*

9	Small Indigenous Fishes to Boost Nutritional Security: A Roadmap for nutri smart village in Deltaic Sunderbans	Aparna Roy	A. Sinha	13.6	2016-2017	ICAR-Extramural
10	Development of standard protocols and molecular tools for fish food authentication for food safety and quality assurance	B. P. Mohanty	P.K. Parida	29.12	2016-2018	FSSAI
11	All India Network Project on Antimicrobial resistance (AMR) in fisheries and aquaculture	A. K. Sahoo	A. K. Bera	20.00 (2025-26)	2017-continuing	*ICAR* (ICAR funding from 2024)
12	All India Network Project on Ornamental fish breeding and culture	Suman Kumari (since 20.10.22 and Oct-May 2020-21), U. K. Sarkar (01.06.21-19.10.22), A Sinha (till Sept 2020)	Sona Yengkokpam(upto 15.03.24), H. S. Swain (upto 31.08.22), A. Sinha,Niti Sharma (w.e.f. 01.09.2021)	42.00 (2025-26)	2017- continuing	*ICAR* (ICAR funding from 2024)
13	Assessment of spawning behavior of major fish species in inland environments with a view to harness the beneficial effects of temperature	U. K. Sarkar	B. K. Bhattacharjya, S. K. Nag, M. Naskar, A. Pandit, P. Panikkar, S. Das, D. Debnath, G. Karnatak, Sona Yongkokpam, T. T. Paul, Lianthuamluaia, Mishal, P., Kavita Kumari, T. N. Chanu	190	2017-2020	NICRA
14	Fisheries development in Sirsa wetland of Bihar through in-situ fish feed rearing and fisheries enhancement techniques for tapping fish production potential – an innovative project	M. A. Hassan	G. Chandra, Sandhya, K. M., Suman Kumari, Mishal, P., Lianthumluia, G. Karnatak, Raju Baitha, H. S. Swain	57.46	2017-2020	NFDB, Hyderabad
15	Fisheries development in Rulhi wetland of Bihar through stakeholders' participatory fisheries management model (Co-management) in a sustainable manner- An	M. A. Hassan	G. Chandra, Sandhya, K. M., Suman Kumari, Mishal, P., Lianthumluia, G. Karnatak, Raju Baitha, H. S. Swain	75.44	2017-2020	NFDB, Hyderabad

	Innovative project					
16	Fisheries development in Majhariamaun of Bihar through refinement of sitespecific fisheries enhancement technology – an innovative project	M. A. Hassan	G. Chandra, Sandhya, K. M., Suman Kumari, Mishal, P., Lianthumluia, G. Karnatak, Raju Baitha, H. S. Swain	80.24	2017-2020	NFDB, Hyderabad
17	Fisheries development in Kararia wetland of Bihar through empowerment of communities and stakeholder participation for capacity building and improved livelihood – an innovative project	M. A. Hassan	G. Chandra, Sandhya, K. M., Suman Kumari, Mishal, P., Lianthumluia, G. Karnatak, Raju Baitha, H. S. Swain	73.36	2017-2020	NFDB
18	Exploratory survey of Hilsa (*Tenualosailisha*) catch and life stages availability along up/down stream of Farakka barrage	B. K. Das	A. K. Sahoo, C. M. Roshith	24.506	2017-18	National Mission for Clean Ganga (NMCG)
19	Fisheries development in Kothia *maun* of Bihar - a pilot project	B. K. Das	Ganesh Chandra, Raju Baitha	81.774	2018-2021	NFDB, Hyderabad
20	Up-scaling of climate-friendly pen aquaculture technology for improved livelihood, employment generation and enhanced income of wetland fishers of North-eastern India	B. K. Bhattacharjya	Sona Yengkokpam, Dipesh Debnath, SCS Das, PiyashiDebroy	87.882	2018-2021	National Mission on Himalayan Studies (NMHS)
21	Cage culture in reservoirs as collaborative programme between Department of Fisheries, Telangana state and ICAR -CIFRI	B. K. Das	U.K. Sarkar, A.K. Das, Sajina A.M., Mishal P., M. Ramteke, A. Saha, C. Johnson, Jesna P.K.	15.53	2018-2020	DoF, Telangana
22	ICAR-WorldFish collaborative research project (Window-3): Small scale fisheries in wetlands for livelihood and nutritional security	B. K. Das	B. K. Bhattacharjya, A. K. Das, Arun Pandit, B.K. Behera, A. K. Sahoo, A. Roy, P. K. Parida, G. Karnatak, S. Borah	102.9	2018-2023	*ICAR-World Fish*

23	Assessment of endocrine disruption in fish reproduction	B. K. Das	S.K. Nag, Kavita kumari	94.7	2019-2023	DBT, Govt. of India
24	A study on input cost and farmgate prices of Inland fisheries in India"	Arun Pandit	M. Karthikeyan ,P. Panikkar, A. Saha, S. Kamble, D. N. Jha, P.K Parida, RK Raman, Sukanya Som,V. R. Thakur, A.K. Yadav, S. Borah,T.T. Paul, Associate: L.Chakraborty	92	2019-21	NSO Project
25	Utilization and diversification of silkworm pupae products for human & animal consumption and composting	B. K. Das	M.A. Hassan, D.K. Meena, Rahul Das	50.64	2020-23	Central Silk Board (CSB), Ministry of Textiles, Govt. of India
26	Impact of climate change in inland fisheries and development of adaptation strategies	U. K. Sarkar(till 19.10.2022) B.K. Das	B. K. Bhattacharjya, S. K. Nag, M. Naskar, S. Das Sarkar, D. Debnath, G. Karnatak, T. T. Paul, Lianthuamluaia, Mishal, P., Kavita Kumari, S. Kumari, C. Johnson	219.21	2020-23	NICRA, ICAR
27	MEAN: Measuring EDCs and aquatic diagnostics through biosensor networks with special reference to NE India	B. K. Behera	B.K. Das, P.K. Parida, D. J. Sarkar, S.C.S.Das	ICAR-CIFRI, Barrackore:39.33 lakhs ICAR-CIFRI Guwahati: 10.01 lakhs	2020-2022	Ministry of Electronics and Information Technology, Govt. of India
28	Development of biosensors for detection of fish pathogenic bacteria and hazardous metalloids in selected water bodies	D.J. Sarkar, B.K. Behera (till 31.12.22)	B.K. Das, P.K. Parida	292.04	2020-2024	NASF, ICAR
29	Empowering women of wetland dependent fisherfolk community of lower Gangetic plain through cost-effective technologies	Aparna Roy	A. K. Bera, Arun Pandit, Sandhya KM, PK Parida	27.6175	2021-2024	DBT, Govt. of India
30	Captive breeding of Hilsa, *Tenualosailisha*: Phase II (NASF ICAR Funded, CIFRI as Lead Institute and CIBA, CIFA and CIFE as partner Institutes)	S. Samanta (Consortium P.I.)	B.K. Behera, R. K. Manna, A. K. Sahoo, Suvra Roy	143.94	2021-2024	NASF, ICAR
31	Investigation on fisheries and ecological status, threats, and remedial measures for enhancement of fish	U. K. Sarkar	A.K. Das, Lianthuamluaia, Mishal P.	22.6	2021-2022	Department of Fishery, Govt. of Himachal Pradesh

	productivity of Gobindsagar reservoir, Himachal Pradesh					
32	Fish stock enhancement including Hilsa and livelihood improvement for sustainable fisheries and conservation in River Ganga (Phase II)	B. K. Das	R.K. Manna, A. K. Sahoo, D. N. Jha, A, Alam, D. K. Meena, Raju Baitha, Mitesh H. Ramteke, Canciyal Johnson, Santhana Kumar V., T. N. Chanu, J. Kumar, T. Bera, V. R. Thakur and H. S. Swain	870.65	2021-2023	National Mission for Clean Ganga (NMCG), Ministry of Jal Shakti, Government of India
33	IoT based precision enclosure culture and fisheries management in inland open waters	S. Samanta (from 17.03.26) B. K. Das	D. K. Meena, Chayna Jana, A. U. Muzaddadi, P.K. Parida	234	2021-2027	*ICAR-NePPA*
34	Environmental and aquaculture animal health monitoring in Hirakud Reservoir under cage culture programme	P. Gogoi (from 17.03.2026) B. K. Das	S. K. Koushlesh, C. Johnson	221.10	2021-2026	*DOF, Govt. of Odisha*
35	Microbiome meta transcriptomics assessment of Indian river basins for ecosystem health monitoring	D. J. Sarkar (from 17.03.2026) B. K Das/BK Behera	Suvra Roy, Vikash Kumar, P.K. Parida, S. Samanta	20 (2026-27)	2021-continuing	*CABin, ICAR*
36	Imparting state of art knowledge on fish breeding to the local fishermen for livelihood improvement and enhancing the native fish population through ranching programme in river Ganga	B. K. Das	A. K. Sahoo, D. K. Meena	43.91	2022-2025	*NTPC, Farakka*
37	National surveillance programme for aquatic animal diseases	Vikash Kumar (from 17.03.26) BK Das	P.K. Parida	49.4	2022-2027	*PMMSY*
38	Addressing Skill gap in the FPO ecosystem in eastern and north eastern parts of India	Arun Pandit	---	Nil	2022-24	ICSSR
39	Cage culture in Kangsabati Reservoir	B.K. Das	M.A. Hassan, D.K. Meena, Rahul Das, G. Karnatak	107.12	2023-24	DoF govt. of WB
40	Improving livelihood of tribal communities through Scampi fisheries enhancement technologies in under-utilized	A. K. Das (up to 30.09.2026)	D.K. Meena Mishal P., S.K. Koushlesh, Raju Baitha (upto 03.06.25) Technical Assistant: Yousuf Ali	201.99	2023-2028	*Govt. of Jharkhand*

	reservoir resources of Jharkhand					
41	Identification and comparative expression analysis of novel immune related genes against prevalent bacterial infection and development of remedial measures in Asian Seabass, *Lates calcarifer*	A. K. Sahoo	D. K. Meena	23.386	2023-2026	*DBT*
42	Fish conservation and stock enhancement of fishery of Ganga river basin (Phase-III) under NamamiGange Mission	S.K. Manna (from 17.03.26) B. K. Das	Dibakar Bhakta, P. K. Parida, D. N. Jha, Lianthuamluaia, Aparna Roy, A. K. Sahoo, Raju Baitha (upto 03.06.25), D. K. Meena, Ajoy Saha, Mitesh H. Ramteke, Arun Pandit, Canciyal Johnson, Gunjan Karnatak, Suman Kumari, Santhana Kumar V., T. N. Chanu, Md. Absar Alam, Vikas Kumar, V. R. Thakur, J. Kumar, PiyashiDebRoy **Associate:** Sunita Prasad, Vijay Kumar, Sumedha Das, Kaushik Mondal, Sangeeta Chakraborty	3138.44	2023-2026	*NMCG*
43	The changing dynamics of labour migration on employment, livelihoods and resource productivity patterns in Indian marine fisheries sector.	Aparna Roy	-	5.8275	2023-2026	*NASF, ICAR*
44	Production system, agribusiness and institutions component 1: Impact of agricultural technology	Arun pandit	Anjana Ekka	51.9	2023-2025 (CIFRI component completed in 2024)	*ICAR* (leader centre ICAR-NIAP)
45	Assessment of production of fish, fish disease and feasibility study of certification for fish produced in East Kolkata Wetland *Subproject 1:* Multiple value assessment of agriculture (paddy), horticulture, medicinal plants, floriculture and uses *Subproject 2:* Culture of indigenous fish species	S. Samanta (from 17.03.26) B. K. Das	A. K. Das, G. Karnatak, Lianthuamluaia, V. Kumar, Mishal P.	*Sub-project 1:* 93.01 *Sub-project 2:* 55.00 *Sub-project 3:* 30.03 Total: 178.03	2023-2027	*East Kolkata Wetland Management Authority*

	Subproject 3: Assessment of invasive fish species with special emphasis on *Pterygoplichthys* spp. for control/eradication in East Kolkata Wetland					
46	Nutritional Profiling of fishes of Sessa river, Dibrugarh, Assam and sensitization on health benefit of fish consumption	B.K. Das	B.K.Bhattacharjya, Simanku Borah	25.00	2024-2025	*CSR Project, funded by:* Brahmaputra Crackers and Polymers Ltd
47	Study on the Environmental Impact Assessment of cage culture in inland open waters before bringing cage culture under consent mechanism	B.K. Das	SuhasKamble, Armaan U. Muzaddadi	46.35	2024 – 2025	*Maharashtra Pollution Control Board*
48	Benchmarking microplastic pollution in the river Ganga and Brahmputra in relation to native edible fish fauna	D.J. Sarkar (from 17.03.26) B. K. Das	Soma Das Sarkar, Ajoy Saha, Rakesh Kumar (upto 07.10.25), Santhana Kumar V. (upto 11.03.2025)	22.03	2024-2026	DBT
49	Nutraceutical solutions for sustainable aquaculture: Extraction and utilization on tasar pupae oil and meal in feed formulation	D. K. Meena (from 17.03.26) B. K. Das	Rahul Das	59.02	2024-2026	*Central Silk Board*
50	A pilot project for developing drone technology for live fish transport and PAN India level demonstration	Chayna Jana (from 17.03.26) B. K. Das	Pranab Gogoi	116.85	2024-2026	*NFDB*
51	Point of care nano-biosensors for antibiotic residue detection in fish	D. J. Sarkar	B. K. Das,Santhana Kumar (upto 11.03.2025)	78.16	2024-2027	*NASF-ICAR*
52	ICAR-WorldFish collaborative research project (Window-3): Small scale fisheries in wetlands for livelihood and nutritional security	R.K. Manna (from 17.03.26) B. K. Das	B. K. Bhattacharjya, A. K. Das, Arun Pandit, A. K. Sahoo, A. Roy, P. K. Parida, G. Karnatak, S. Borah, Pronob Das, Lianthuamluaia, M. Shaya Devi	38.31	2024-2028	*ICAR-World Fish*
53	Assessment of Green House Gas emission and Scoping Study for cultivation of indigenous high	Srikanta Samanta	B. K. Das, Gunjan Karnatak, ThangjamNirupadaChanu	11.9	July-Dec 2025	*IWMI*

	value fishes in East Kolkata Wetlands					
54	Scaling-up cage culture of high-value butter catfish (*Ompok bimaculatus*): A sustainable approach to profitability	G. Karnatak	P. K. Parida, Mitesh Ramteke, S.C.S. Das	53.77	2025-2026	*NFDB*
55	Leveraging auto-recruiting indigenous species for sustainable enhancement and conservation of wetland fisheries	Lianthuamluaia	Suman Kumari, G. Karnatak, Arun Pandit, Simanku Borah, P. K. Parida	54.39	2025-2026	*NFDB*
56	Conservation and restoration of Gangetic Indian Major Carps and other Indigenous fishes through breeding and ranching at Farakka, West Bengal	A. K. Sahoo(from 17.03.26) B.K.Das	D. K. Meena, Gunjan Karnatak	65.538	2025-26	*NTPC, Farakka*
57	Backyard pond culture through model village development	Aparna Roy (from 17.03.26) B. K. Das	Ganesh Chandra	32.00	2025-26	*CSR project funded by: SBI*
58	Developing Transboundary Management Strategies for Hilsa Fishery in the Bay of Bengal Region under Changing Climate	Director, ICAR-CIFRI	A. K. Sahoo, D. K. Meena, PiyashiDebRoy, Canciyal Johnson	50.00	2025-2027	*Bay of Bengal Inter-Governmental Programme*
59	Study on Green House Gas emission and carbon sequestration Potential of the Phytoplankton communities in river Ganga at Farakka	T.N. Chanu	A.K. Sahoo, Santhana K.V., Pranab Gogoi Technical assistant: AnjonTalukdar	32.73	2025-2027	*Hop & NTPC Farakka*
60	Feasibility study of cage culture in nine reservoirs of Gujarat State	B.K. Das/ Aarman U. Muzaddadi	SuhasKamble	7	2025-2027	Government of Gujarat
61	Fish hatchery development: advancing technology, demonstration and capacity building for enhance inland fish production	L.N. Murthy	Jesna Mukundan, Deepa Sudheesan, Thankam Theresa Paul, Tanuja Abdulla	192.5205	2026-2028	*Central Sector Scheme Component of PMMSY*
62	Environmental flow assessment for Chambal, Sone, Damodar and Tons of River as Critical	AK Sahoo	DK Meena, Kavita Kumari, PiyashiDebroy, Pranab Gogoi, Sangeetha M Nair, Vikash Kumar,	210.52416	2026-2029	NMCG

	reaches		Satish Koushlesh. Technical Support:Lokenath Chakraborty, Anjon Kumar Talukdar			