



Dr. D.N. Chattopadhyay

Senior scientist (Aquaculture)

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Department	Aquaculture Production & Environment Division			
Institute/University	Central Institute of Freshwater Aquaculture (ICAR), Kausalyaganga, Bhubaneswar-751002, Orissa, India			
Address	Regional Research Centre, Central Institute of Freshwater Aquaculture Heserghatta Lake Post, Bangalore-560 089 Karnataka, India.			
Date of Birth	01 March 1960			
Sex	Male			
Tel				
Fax				
Educational qualifications				
Sl. No.	Degree	Area of Specialization	Year of passing	Institution
1.	Ph. D. (Zoology)	Aquatic Pollution (Effects of detergents on fish and fish food organisms)	1989	University of Kalyani, Kalyani, West Bengal, India.
2.	M. Sc. (Zoology)	Fisheries	1980	University of Kalyani, Kalyani, West Bengal, India.
3.	B. Sc. (Hons in Zoology)	Zoology	1978	University of Kalyani, Kalyani, West Bengal, India.

Experience gained before entry in ICAR service

- Toxicological studies of different pollutants on fish and fish food organisms
- Three years research experiences on the “Bio-ecological studies of the river Ganga in relation to fish fauna as affected by pollutants and restoration of normal population density” under the Dept. of Environment’s (Govt. of India) ‘Integrated Eco-development project on river Ganga basin’.
- Co-investigator in “Mathabhanga-Churni river pollution control project” financed by the Dept. of Environment, Govt. of W.B. in the Dept. of Zoology, University of Kalyani for 2 years.
- Three years experience in fishery extension service in rural villages as a reporter in Bengali patrika (MAACHH)
- One month experience in Induced breeding of IMC and exotic carps in a private fish farm (Nilu Ghosh Fish Farm at Naihati, W.B.)

Experience gained after entry in ICAR service (Professional Experience)

Post held	Institution	Period	Experience
Technical Assistant (Fisheries)	Krishi Vigyan Kendra (KVK), Central Institute of Freshwater Aquaculture (CIFA), Bhubaneswar, India.	1989- 1994 (5 years)	Training, Aquaculture Extension, Management of KVK Instructional Fish Farm & Research
Technical Officer (Fisheries)	KVK, CIFA, Bhubaneswar, India.	1995- 2000 (6 years)	do
Subject Matter Specialist (Fisheries)	KVK, CIFA, Bhubaneswar, India.	2000- 2007 (7 years)	do
Senior Scientist	Central Institute of Freshwater Aquaculture, Bhubaneswar (ICAR)	2007- Till date	Research, Aquaculture Extension & Training

Research Experiences

- Breeding and culture of carps
- Cage aquaculture
- Fish broodstock management and nutrition

Research Interests	<ul style="list-style-type: none"> • Integrated aquaculture • Cage aquaculture • Breeding and culture of carps and small indigenous fish • Waste water Aquaculture • Rural Aquaculture • Aquaculture extension
Important achievements	<ul style="list-style-type: none"> • On Farm Testing and Front Line Demonstration of breeding and fish culture technologies in rural areas of Orissa • Development of Portable FRP eco-carp hatchery for small farmers. • Development of eco-carp hatchery complex in rural areas of Orissa. • Development of technology of integrated agri-fish crop diversification in rural pond. • Aquaculture Extension for breeding, seed production, nursery pond management and grow-out culture of Indian Major carps and Exotic carps. • Development of cage aquaculture at Kuanria Reservoir near Daspalla of Nayagarh District of Orissa and Saguna beel of Nadia district of West Bengal. • Establishment of two FRP carp hatcheries at Kendrapara and Keonjhar and breeding programme was conducted for carp seed production
Awards/ recognition	<ul style="list-style-type: none"> • ‘R & D in Aquaculture in the country’ given by Convener, Fifth Indian Fisheries Forum in 2000. • ‘Best Technical Staff Award’, Institutional, CIFA (ICAR) in 2004. • “Bishes Praman Patra” for Involvement in Extension of Rajbhasa on celebration of Rajbhasa Hindi Golden Jubilee year, Institutional, CIFA (ICAR) in 2000. • “Best Section Award” of CIFA in the Silver Jubilee Year of CIFA 2010-2011 as a team member of RRC of CIFA, Rahara • “Best Poster Award’ of the paper authored by H.K.De, D.N.Chattopadhyay, Radheyshyam, G.S.Saha, A.K.Dash, P.P.Mondal and S.Pal presented in the 9th Indian Fisheries Forum held at Chennai during 19-23 Dec. 2011

<p>Current Research Projects</p>	<ul style="list-style-type: none"> • Performance of few high values regionally preferred fishes along with small indigenous freshwater fish species (SIFFS) in agri-horti-livestocks integrated culture system (Institute project as Co-PI) • Transfer of technology of composite carp culture through demonstration among SC/ST women in Boudh and Purulia (DST project as Co-PI) • Outreach activity on fish feed Activity -2: Feed technology development for pond and cage culture of IMC and peninsular carps (ICAR project as Co-PI)
<p>Research Projects Completed</p>	<ul style="list-style-type: none"> • Cage aquaculture and its impact on ecosystem (Institute project as PI). • Breeding and culture of <i>Rhinomugil corsula</i> and its incorporation in polyculture (Institute based project as Co-PI) • Economic and livelihood development of SC/ST population through freshwater aquaculture technologies (DBT project, GOI as Co-PI) • Aquaculture Diversification and Wastewater Management (Institute based project as Co-PI) • Characterization and Utilization of wastes in Aquaculture (Institute based project as Co-PI)
<p>Publications</p>	<ol style="list-style-type: none"> 1. Research papers: 27 nos. 2. Book chapters: 02 nos. 3. Booklet: 03 nos. (2 in English and 1 in Bengali) 4. Folder: 06 nos. (4 in English and 2 in Bengali) 5. Popular articles: 28 nos. (11 in English and 17 in Bengali)
<p>I</p>	<p>Full papers</p> <ol style="list-style-type: none"> 1. Chattopadhyay D.N. 1983. Acute toxicity of detergents to fish, plankton and worm. Environ. Ecol. 1: 115-116. 2. Chattopadhyay D.N. 1983. Acute toxicity of detergents to fish and worm. Environ. Ecol. 1: 23. 3. Chattopadhyay D.N. and S.K.Konar. 1984. Influence of an anionic detergent on fish. Environ. Ecol. 2: 257-261. 4. Chattopadhyay D.N. and S.K.Konar. 1985. Chronic effects of an anionic detergent on aquatic ecosystem. Environ. Ecol. 3: 82-85.

5. **Chattopadhyay D.N.** and S.K.Konar. **1985.** Acute and chronic effects of linear alkyl benzene sulfonate on fish, plankton and worm. **Environ. Ecol. 3: 258-262.**
6. **Chattopadhyay D.N.** and S.K.Konar. **1985.** Chronic effects of linear alkyl benzene sulfonate on aquatic ecosystem. **Environ. Ecol. 3: 428-433.**
7. **Chattopadhyay D.N.** and S.K.Konar. **1986.** Acute and chronic effects of a nonionic detergent on fish, plankton and worm. **Environ. Ecol. 4: 57-60.**
8. **Chattopadhyay D.N.** and S.K.Konar. **1986.** Chronic effects of a nonionic detergent on aquatic ecosystem. **Environ. Ecol. 4: 105-108.**
9. **Chattopadhyay D.N.** and S.K.Konar. **1987.** Some bio-ecological studies of the river Ganga in relation to water pollution. **Environ. Ecol. 5: 494-500.**
10. **Chattopadhyay D.N.** and S.K.Konar. **1989.** Removal of detergent toxicity through adsorption by soil particles. **Environ. Ecol. 7: 441-445.**
11. **Chattopadhyay D.N.** and S.K.Konar. **1990.** Removal of detergent toxicity through culture of *Azolla caroliniana* and *Spirodela polyrhiza*. **Environ. Ecol. 8: 1265-1268.**
12. **Chattopadhyay D.N.** and S.K.Konar. **1990.** Removal of toxicity of linear alkyl benzene sulfonate through aging. **Environ. Ecol. 8: 352-355.**
13. **Chattopadhyay D.N.** and S.K.Konar. **1991.** Removal of toxicity of linear alkyl benzene sulfonate through algae culture. **Environ. Ecol. 9: 342-344.**
14. Radheyshyam, B.K.Sharma, S.K.Sarkar and **D.N.Chattopadhyay.** **1993.** Environmental stress associated with disease outbreak in fish in an undrainable weed infested pond. **Environ. Ecol. 11: 118-122.**
15. Radheyshyam, **D.N.Chattopadhyay** and S.K.Sarkar. **1994.** Loss in weight gain due to occurrence of Diplostomiasis disease in the fingerlings of *Labeo rohita* in nursery pond. **Appl.Zool.Res. 5: 59-62.**
16. Radheyshyam, S.K.Sarkar, S.Sarkar, J.P.Verma, **D.N.Chattopadhyay** and P.K. Mukhopadhyay. **1996.** On-farm trial to study the efficacy of formulated feed for fingerlings of *Labeo rohita* in monoculture system. **J. Aqua. 4: 19-28.**

17. Nandi S., D.N.Chattopadhyay, J.P.Verma, S.K.Sarkar and P.K.Mukhopadhyay. 2001. Effect of dietary supplementation of fatty acids and vitamins on the breeding performance of the carp *Catla catla*. **Repro. Nutr. Dev.** 41:365-375.
18. Chattopadhyay D.N., K. Marandi, J.P. Verma, S.K. Sarkar, P.K. Mukhopadhyay and S.S.Giri. 2002. Effect of dietary vitamin supplementation on performance of Indian major carps under semi-intensive polyculture system. **Ind. J. Fish.** 49: 179-186.
19. Radheyshyam, D.N. Chattopadhyay, B.B. Satpathy and S.K. Sarkar. 2003. Study on pond fertilization for sustainable carp fry production in rural area. **Aquacult.** 4: 231-236.
20. Radheyshyam, B.K.Sharma, D.N.Chattopadhyay, S.K.Sarkar and B.B.Satpathy. 1993. Effects of phased increase in water level on the survivality of *Cyprinus carpio* (L.) fry in nursery ponds. **Third Indian Fish. Forum Proc., 11-14 Oct. 1993. Pantnagar.** 59-63.
21. Adhikari S., B.Sarkar, A.Chattopadhyay, D.N.Chattopadhyay, S.K.Sarkar and S.Ayyappan. 2006. Effect of cypermethrin on breeding performances of a freshwater fish, *Labeo rohita* (Hamilton). **Chemistry & Ecology.**22: 181-188.
22. Adikari S., B.Sarkar, A.Chattopadhyay, D.N.Chattopadhyay, S.K.Sarkar and S.Ayyappan. 2008. Carbofuran induced changes in breeding of a freshwater fish, *Labeo rohita* (Hamilton). **Toxicological & Environmental Chemistry.** 90:457-465.
23. Chattopadhyay D.N., J.P.Verma, Radheyshyam, B.Behera, S.Sarkar and P.K.Mukhopadhyay. 2011. On-farm evaluation of formulated feeds on the breeding performance of *Catla catla* reared in rural ponds. **Aquaculture Nutrition.** 17 (2): e30 – e38. (Article first published on 20 Nov. 2009 pp. 1-9. doi: 10.1111 / j. 1365-2095. 2009.00723.x on line publication).
24. Paul B.N., A.K.Datta, S.Das, D.N. Chattopadhyay, S.S.Giri and S.N.Mohanty. 2011. Effect of dietary lipid levels on growth and carcass composition of *Ompok pabda* (Siluridae) fry. **Indian Journal of Animal Nutrition.** 28 (2):198-202.
25. Paul B.N., S.Das, S.S.Giri, D.N. Chattopadhyay, R.N.Mandal and A.K.Datta. 2011. Performance of *Cirrhinus mrigala* fingerlings on feeding dried distillers grain soluble. In: Animal Nutrition Strategies for Environment Protection and Poverty Alleviation, 7th Biennial ANA Conference 2010, pp 198.
26. Chattopadhyay D. N., B. C. Mohapatra, S. Adhikari, K. C. Pani, J. K. Jena and A. E. Eknath. 2012. Effects of stocking density of

		<p>Labeo rohita on survival, growth and production in cages. <i>Aquaculture International</i> (in press) (DOI: 10.1007/s10499-012-9528-2).</p> <p>27. Paul B.N., S.Das, S.S.Giri, D.N.Chattopadhyay, R.N.Mandal, P.P.Chakrabarti. 2012. Performance of <i>Cirrhinus mrigala</i> Fingerlings on Feeding Dried Distillers Grain Soluble. Indian Journal of Animal Research (In Press).</p>
II	Book Chapter	<ol style="list-style-type: none"> 1. Radheyshyam, D.N.Chattopadhyay, L.Safui, B.B.Satpathy, S.K.Sarkar and A.K.Dash. 2005. Integrated agri-fish crop diversification in newly constructed pond for higher production and income generation. Zoology and Human Welfare (Ed. Dr. Ashok Verma). Dept. of Zoology, Dr. Shyama Prasad Mukherjee Govt. Degree College, Phaphamau, Allahabad, Univ. of Allahabad. p.p. 411. Section IV: 267-273. 2. Mandal R.N., R. Bar, D.N.Chattopadhyay and A.K.Datta. 2011. Assessment of impact of water hyacinth (<i>Eichhornia crassipes</i>) on ecology and socio-economy. In: Evaluation and impact assessment of technologies and developmental activities in agriculture, fisheries and allied fields (Ed. A.K.Roy). 291-312.
III	Booklets	<ol style="list-style-type: none"> 1. Chattopadhyay D.N. 2003. <i>Nursery pond management</i>. ATIC (NATP) of CIFA (ICAR) publication, bulletin series-1, 28pp. 2. Sarkar S.K., B.B.Satpathy, Radheyshyam, D.N. Chattopadhyay, J.P.Verma, B.K.Sharma, B.Behera, P.K.Nayak, S.C.Rath and S.Ayyappan.2003. Portable eco-carp hatchery for small farmers-an innovative, feature packed and field-tested device. CIFA Bull.34 pp. 3. Chattopadhyay D.N., P.K.Mukhopadhyay, R.N.Mandal, B.N.Paul, P.P.Chakraborti, S.C.Rath and S.S.Giri. 2011. Ponamachher paripurak khadya (Supplementary Feed of carps). Published by CIFA & Fisheries Division of ICAR: Booklet No. 4: 16 pp.
IV	Folder	<ol style="list-style-type: none"> 1. Chattopadhyay D.N. and Radheyshyam. 2004. Argulosis control in fish. KVK (ICAR) publication. 2. Chattopadhyay D.N. and Radheyshyam. 2004. Common carp breeding. KVK (ICAR) publication. 3. Chattopadhyay D.N. and J.P.Verma. 2006. Preventive measures of common diseases of carp. KVK (ICAR) publication.

		<ol style="list-style-type: none"> 4. Nandi S., S. Dasgupta, D.N. Chattopadhyay and P.K. Mukhopadhyay. 2008. CIFABROOD A proven broodstock feed for Indian major Carps. CIFA publication. 5. Datta A.K., D.N. Chattopadhyay, R.N.Mandal, B.N.Paul, and B.K.Pandey. 2010. Borjya jale jibpalan Kendra-ek nazare (in Bengali). WAD of CIFA (ICAR), Rahara publication. 6. De H.K., D.N. Chattopadhyay, Radheyshyam, G.S.Saha, A.K.Dash, P.P.Mondal, and F.Kora. 2010. Mishra machh chash (in Bengali). CIFA (ICAR) publication.
V	<h3>Popular Articles</h3>	
		<p>a) English language</p> <ol style="list-style-type: none"> 1. Mukhopadhyay P.K. and D.N. Chattopadhyay. 2002. Feed strategies for carps. Aqua feed international. 5: 23-25. 2. Sarkar S.K., B.K. Sharma, B.B.Satpathy, Radheyshyam, D.N. Chattopadhyay, B.Behera and P.K.Nayak. 1995. A simplified FRP carp hatchery for rural farmers. Fishing Chimes. Sept. 1995. P. 23-24. 3. Mukhopadhyay P.K., D.N. Chattopadhyay and Gopa Mitra. 2003. Broodstock nutrition- the key to quality seed production. Infofish International 3:25-31. 4. Mitra G., D.N. Chattopadhyay and P.K.Mukhopadhyay. 2005. Nutrition and feeding in freshwater prawn (<i>Macrobrachium rosenbergii</i>) farming. Aqua Feeds: Formulation & Beyond 2:17-19. 5. Radheyshyam, L.Safui, D.N.Chattopadhyay and B.B.Satpathy. 2007. Woman-friendly rural aquaculture. Indian Farming. 56 (10): 50-55.Jan. 2007. 6. Sarangi N., B.K. Das, S. Chandra, B.C. Mohapatra, D.N. Chattopadhyay, H. K. De, P. Patnaik, S. Ghosh, D. Swain and A. Mallick. 2008. Collective interaction with pisciculturists in two SC/ST dominated districts of Orissa: CIFA's initiative in January 2008. Fishing Chimes (Full-length article has been communicated) 7. Mandal R.N., D.N. Chattopadhyay, G.S.Saha and P.K.Mukhopadhyay. 2010. Water chestnut cum fish culture: a viable integration for rural aquaculture. Agrovet Buzz, 3: 53-56.

	<p>8. De H.K., D.N.Chattopadhyay, G.S. Saha, Radheyshyam, P.P.Mondal and S.Pal. 2011. Status of aquaculture in Purulia district, West Bengal. Fishing Chimes. 31 (5): 28-29, 33.</p> <p>9. Radheyshyam, D.N. Chattopadhyay and S.K.Sarkar. 2011. Culture feasibility of freshwater mullet <i>Rhinomugil corsula</i> in ponds in India. <i>Aquaculture Asia</i>. 16: 23-26.</p> <p>10. Das B.K., B.C. Mohapatra, H. K. De, D.N. Chattopadhyay, N. Sarangi, A.E.Eknath, S. Chandra, P. Patnaik, A. Mallick, D.K. Swain and S. Ghosh. 2011. Women self help group in aquaculture at Tanar, Kendrapada Sadar, Orissa-a case study. Aquaculture Innovators. Published by Dr. P. Jayasankar, Director, CIFA. Edited by Radheyshyam, G.S. Saha and H.K.De. pp 78-86.</p> <p>11. Chattopadhyay D.N., H.K. De, G.S. Saha, Radheyshyam, S.Pal and T.S.Satpati. 2012. Freshwater aquaculture in Boudh district of Odisha: Prospects and potentials. Fishing Chimes. 31 (11): 20-23</p> <p>b) Bengali Language</p> <p>1. Published 13 nos. of popular articles on rural aquaculture technologies practiced by the farmers of different district of West Bengal in Bengali language in “MAACHH” patrika.</p> <p>2. Chattopadhyay D.N. and P.K.Mukhopadhyay. 2008. Swadhin Bharate Mishti Jale Maachh Chaser Bikash (in Bengali). Vigyan Mela: Jan-Feb.2008: 23-25.</p> <p>3. Chattopadhyay D.N. and P.K.Mukhopadhyay. 2008. Paribesh Surakshaya Maachh Chas (in Bengali). Vigyan Mela: July-Aug. 2008: 8-10.</p> <p>4. Mandal, R. N., D.N. Chattopadhyay and P. K. Mukhopadhyay. 2010. Syaolar Guruttapurna Bhumika: Machh Chase, Bigyan Mela (Bengali), Jan.-Feb.: 31-35.</p> <p>5. Mandal, R. N., D.N. Chattopadhyay and P. K. Mukhopadhyay. 2012. Barshaplabita morsumi jalabhumir chalchitra, Gyan O Bigyan (Bengali), Jan.: 14-17.</p>	
VI	Audio cassettes	Prepared 3 nos. of audio cassettes (Matsya Lahar, Matsya Dhara and Matsya Taranga) in 3 different languages Viz. Hindi, Oriya and Bengali in association with others for rural fish farmers. These were published by CIFA .

VII	Preparation of CD for rural fish farmers	<ol style="list-style-type: none"> Chattopadhyay D.N., J.P.Verma and G.S.Saha. 2007. CD on ‘Common Carp Breeding’ in Oriya language for rural fish farmers. The CD was published by Director, CIFA and released by Dr. A.E.Eknath of ICLARM & Chairman, Scientific Advisory Committee of CIFA on 11.04.07.
VIII	Technical Article in Training Manual	<ol style="list-style-type: none"> Chattopadhyay D.N. 1990. Sources and effects of common pollutants on aquatic ecosystem. In: Training manual under Trainers’ Training Programme on “Techniques of Aquaculture Management in Large Water Bodies” for Maharashtra State Fisheries Officers, held at KVK/TTC of CIFA, Kausalyaganga. Compendium No. 3, May. 1990. 44-53. Chattopadhyay D.N. 1990. Transfer of Technology in carp farming in rural areas. In: Training manual under Trainers’ Training Programme on “Techniques of Aquaculture Management in Large Water Bodies” for Maharashtra State Fisheries Officers, held at KVK/TTC of CIFA, Kausalyaganga. Compendium No. 3, May. 1990. 77-83. Chattopadhyay D.N. 1994. Common exogenous pollutants and their effects on fish production. In: Training manual under Trainers’ Training Programme on “Cyclic carp culture” for FEO, Orissa, held at KVK/TTC of CIFA, Kausalyaganga. Compendium No. 5, Nov. 1994.106-111. Kumaraiah P. and D.N. Chattopadhyay. 2007. Rearing of fingerlings and growout culture in cages. Training manual of International Training Programme on “Carp Breeding and Culture” for the fish farmers of Sri Lanka 20-29 Aug., 2007. CIFA, Kausalyaganga, BBSR-2. Chattopadhyay D.N. 2008. Cage aquaculture. <i>In:</i> Training manual under Trainers’ Training Programme on “Freshwater aquaculture for rural development” organized by CIFA, UNDP (BBSR), Dept. of Fisheries (Govt. of Orissa) held at CIFA, Kausalyaganga, BBSR-2 on 7-10 April, 2008: pp 67-75. Chattopadhyay D.N. 2009. Carp seed raising in cages. <i>In:</i> Training manual of summer school on “Recent trends in seed production of freshwater finfishes and shellfishes” held at CIFA, Kausalyaganga, BBSR- 2 on 18 Feb.-10 Mar., 2009.