

DR. DEBTANU BARMAN

M.Sc. AQUACULTURE, BELGIUM

Fisheries Entrepreneur and Well-Known Fisheries Expert– in the field of Sustainable Aquaculture (Fish & Shellfish) aspects on BMP’s based farming models, Bio-floc based Aquaculture, RAS Aquaculture, Ornamental Fish Farming, Aquapreneurship development & training, Women’s empowerment through aquaculture, Aquaponics with fish farming models, Socio-economic Up-Liftmen through aquaculture tools (India, Bangladesh, Nepal etc.) with more than 12 years of working experience in aquaculture industries.



Worked in various leading positions in International Business firms in India & Bangladesh as Consultant in different fish / shellfish farming projects (Hatchery management, fish/shellfish farm management, Training etc.). Also worked in various leading International NGO’s like Don Bosco, AwF (UK), Caritas (Bangladesh), FAO (Nepal) etc. Expert in starting new business ventures in developing countries through Aquapreneurship development program such as fish and shellfish farming in Pond/ Bio-floc/ RAS/ Aquaponics etc. for women’s and unemployed youth empowerment.

Personal Details:

Name	Dr. Debtanu Barman
Date of Birth	15th October 1986
Permanent Address	C/O - Sri. Ratan Barman Village- Melaghar Thakurpara P.O.-Melaghar, Subdivision- Sonamura District – Sepahijala Pin- 799115
Nationality	Indian
Sex	Male
Marital Status	Married
Cell Phone	91-8334932366/ 8334932234
E-mail	debtanu080@gmail.com

Education & Certification

Qualification	Board/University	Location	Year of Passing
B.F.Sc.	Central Agricultural University	Imphal, India	2009
M.Sc. Aquaculture	Ghent University	Belgium, Europe	2011

Employment Details


Organization	Designation	Duration
Cargill MNC Fish Feed Company	Technology Application Officer (TAO)	2014-2016
Hi-Tech Pharma	Business Development Officer	2016-2018
Aqua Doctor Solutions	CEO, Proprietorship Firm	2019
Aqua World Trust	Director	2020
Aqua One Centre	Director & In-charge	2020
Gramin Vikas Trust, New Delhi	Aqua Consultant, New Delhi	2022

Technical Skills

- Proximate Composition Analysis of Fish and Feed.
- Soil & Water Quality analysis with Environmental Assessment.
- Hypophysation Techniques for Finfish-Shellfish.
- Nursery, Rearing and Grow-out Pond Management
- Microbiological Methods in Quality assurances.
- Ornamental Fish Breeding & Culture.
- Molecular Biology Techniques including PCR, Gel electrophoresis (Agarose and Poly acrylamide gel).
- Socio-Economic Survey and Analysis.
- Livelihood Assessment through PRA tools & Training.


Work Experience/Special Training

- Presently Working as a “Business Development Officer (BDO)” in HI-TECHPHARMA, Nellore from 2016. Taking the charge of North-East India Marketing with Sales Team Technical Training, Farmers Technical Training, Product Promotion and International Marketing of Hi-Tech Products in Bangladesh.
- Worked as a “Technology Application Officer (TAO)” in Cargill MNC Fish Feed Company in Kolkata, West Bengal region for 2014-2015. Taking the charge of Sales



Team Technical Training, Farmers Technical Training, Product Promotion, Diversified Aquaculture Species promotion (IMC, Prawn, Pacu, Tilapia, Koi, Magur, Crab) etc.

- Intensive Training in Biotechnological tools, Population dynamics and Modelling, Fish Pathology & Microbiology, Fish Biochemistry, Finfish and Shellfish seed production and culture, etc. in State Institute of Fisheries Technology, Andhra Pradesh, India for 15 days.
- Under gone 45 days field-oriented Internship Programmed in larval development and hatchery management of Milkfish, Groupers, Pearl Oyster, Abalone, Yellow fin Tuna, Trevally, Banggai Cardinal & Clown fish etc. activities at the Research institutes for Mariculture (RIM), Gondal-Bali, Indonesia.
- Working as an Aquaculture Researcher/ Aquaculture Volunteer for Aquaculture without Frontiers (AwF), International NGO, UK in Centre for Aquaculture Research & Development (CARD), St.Xavier's Vocational Training Centre, Don Bosco Centre, Bishramganj-799103, Tripura, India for last 5 years (2008-2013).
- Worked as Research Scholar for NBFGR, Lucknow, India funded Research Project entitled "Exploration and Characterization of Fish germplasm and Indigenous fisheries Knowledge (ITK's) of Major Rivers of Tripura" in College of Fisheries, Central Agricultural University(I), Lembucherra, Tripura, India for 2012-2013.
- Participated in the 3 days long DBT Sponsored Training Programme on "Application of Bio informatics Tools and Techniques in Fisheries, Aquaculture and Life Science" organized by Bioinformatics Facilities for Biology Teaching through Bioinformatics lab, College of Fisheries (CAU), Tripura, India on 21st -23rd October,2013.
- Participated in 2 days long Innovation Training Programme on "First Students Research Convention on Innovation in Fisheries" organized by Central Institute of Fisheries Education (CIFE), Mumbai, India on 10th-11thJuly,2013.
- Participated in the 5 days long NFDB Sponsored Training Programme on "Methods and Techniques for Improved Production, Utilization and Conservation of Fishery Resources in North-East India" organized Dept. of Fishery Resource Management (FRM), College of Fisheries (CAU), Tripura, India on 14th-18th March, 2013.
- Participated in the DBT Sponsored Capacity Building Workshop-cum-Training



programme on “Collection, Preservation, Cataloguing, Preliminary identification and Application of Molecular Tools for Confirmation of Systematic Identity” organized by Centre of Excellence in Aquaculture and Fisheries Biotechnology Project (COE), College of Fisheries (CAU), Tripura, India on 8th - 12th March, 2013.

- Participated in the DST Sponsored 4 days Intensive Training Program on “Science Communication” organized by CSIR-North East Institute of Science & Technology, Jorhat, Assam, India on 18th-21st February, 2013.
- Participated in the Workshop on “Feed Based Aquaculture in North-East Region: Status, Constraints and Potential”; organized by CIFE, ICAR & College of Fisheries (CAU), Tripura, India on 11th-12th January, 2013.
- Intensive Training in Biotechnological tools, Population dynamics and Modelling,
- Fish Pathology & Microbiology, Fish Biochemistry, Finfish and Shellfish seed production and culture, etc. as part of Undergraduate curriculum in State Institute of Fisheries Technology, Andhra Pradesh, India for 15 days, 2009.
- Completed a research project by associating with the Intramural project of the Central Agricultural University, College of Fisheries, Lembucherra, Tripura entitled “Larval development and rearing of *Ompok bimaculatus*, an endangered species of North-East India.”
- Completed research project by associating in the Intramural project of the Central Agricultural University, College of Fisheries, Lembucherra, Tripura entitled “Mapping of Indigenous Ornamental fishes of South Tripura District, India.”

Computer Proficiency

1. Basic knowledge of MS_DOS.
2. Undergone a Computer Course (MS Office and Internet).
3. Aware with MSword, Excel, PowerPoint. Splus with Stastical Analysis, Basic Knowledge of C Programming, Internet, and related works.

Membership of Professional Bodies

- Member of "World Aquaculture Society," USA.
- Life member of Professional Fisheries Graduates Forum (A prelude to Fisheries Council of India), Mumbai, India.
- Life member of North Eastern Society for Fisheries and Aquaculture 'C/o. College of Fisheries, Lembucherra -799210, Tripura-India.
- Volunteer of National Service Scheme created to bring awareness among the youth on social responsibilities.

Published Paper	
Research Journal	11 nos.
Review Paper	04 nos.
Scientific Popular Articles	36 nos.
Scientific Popular Newspaper Articles	06 nos.
International Seminar Workshop	21 nos.

Recipient of many prestigious awards more than 30 nos and 60 nos appreciation certificates from India and Abroad for Outstanding Contribution in the field of Fisheries & Aquaculture. Few of them as below:

Awards Details		
Name of the Awards	Organization	Achievements Year
Harit Puraskar	5 th National Youth Convention, RGKV, Chhattisgarh, India	2019
Rashtry Samaj Seva Ratna	Social Activity under Farming Sector, TGHF, Govt. of Delhi, India	2020
Best Entrepreneur of the Year	The Bengal Chamber & Commerce, Kolkata, India	2021
Indus International	The Best Aquaculture Specialist, Mumbai, India	2021
Indian Icon	Best One Stop Aquaculture Services & Consultancy in West Bengal	2021
Bharat Gaurav Puraskar	Outstanding Achievements & Remarkable Contribution in the Field of Social Services	2021

Bengal Leadership	Best One Stop Aquaculture Services & Consultancy in West Bengal	2021
InSc International Publisher Award	Young Researcher Award	2022
Bengal Social Influencer Award	Freelance Foundation, Kolkata	2022
Young Professional Award	DISHA-2022, KNIPSS, Uttar Pradesh	2022
Banga Gaurav Samman	World Book of Star Records	2022
Rural Entrepreneurship Award 2023	The Bengal Chamber of Commerce & Industry with State Bank of India (SBI)	2023
Doctorate Award	Honorary Doctorate Awards Council, United States (USA)	2023

Publications

A. Research Papers (Selected)

- P.K. Pradhan and Debtanu Barman “Preliminary Studies on Larval Rearing of an Endangered Fish of Northeast India, *Ompok bimaculatus* (Bloch) for future Conservation” published “International Journal of Aquaculture” Vol. 4, No. 10, 64- 66, 2014.
- Sagar C Mandal and Debtanu Barman “Identification of the Most Indigenous Ornamental Fishes of South Tripura in India for Commercial Production” published “International Journal of Aquaculture” Vol. 4, No. 07, 43-47, 2014.
- Debtanu Barman, Phanna Nen, Sagar C Mandal and Vikash Kumar “Immunostimulants for Aquaculture Health Management” published “Journal of Marine Science Research & Development” Vol. 3, 2013.
- Vikash Kumar, Suvra Roy, Debtanu Barman, Lokesh Paul and Kundan Kumar “Clinical pathology and their potential application in disease diagnosis” published “International Journal of Agricultural Sciences” Vol 3(9): 005-015, 2013.
- Sagar C. Mandal, Debtanu Barman, Pradyut Biswas & M.C.Nandeeshha “Potential Indigenous Ornamental Fish Species of North-East Region of India – A Process Development” published “Journal of Interacademia” Vol 17(1): 143-147, 2013.
- Debtanu Barman, Vikash Kumar, Abhay Kumar, Pampa Bhattacharjee and Siddhartha Pratim Datta “Larval Development and Embryonic Study on *Colisa fasciatus*: A Potential indigenous ornamental fish of North-East India” published ‘Advances in Applied Science Research-Pelagia Research Library’, Vol. 4 (4), 479- 483, 2013.

- Apu Das, Nalini Ranjan Kumar, Biswajit Debnath, Debtanu Barman and Manik Datta on “Economics analysis of Consumption Behaviour for Fish in Tripura” published “Fishery Technology” Vol. 50, 185-190, 2013.
- Sagar C. Mandal, S.K.Singh, Pronob Das, Debtanu Barman and Sanjay K. Gupta on “Trace and heavy metal content in diets and their effect on the growth and survival of Siamese fighting fish, *Betta splendens*” published “Indian Journal of Animal Nutrition” Vol. 30(1), 80-86, 2013.
- Sagar C Mandal, S. Khogen Singh, Pronob Das, Mohd Ashraf Rather and Debtanu Barman “Effect of dietary eicosapentaenoic acid/docosahexaenoic acid and vitamin E on the reproductive performance and gonadal fatty acid composition of *Betta splendens*” published ‘The Israeli Journal of Aquaculture- Bamidgeh’ IJA_64.2012.868, 2012.
- Sagar C Mandal, Debtanu Barman and Vikash Kumar “Mass production of Anabantids: A potential indigenous group of fishes in North-East India” published ‘Journal of Interacademia’ Vol. 15 (2), 309-313, 2011.
- Debtanu Barman and Sagar C Mandal “Innovations in the Carp Hatchery by a Fish Farmer of South Tripura District in India – A Case Study” published ‘Journal of Interacademia’, Vol. 15 (2), 330-333, 2011.

B. Review Papers

- Vikash Kumar, Suvra Roy, Debtanu Barman and Aditya Kumar “Immunoserological and Molecular Techniques used in Fish Disease Diagnosis- A mini review” published ‘International Journal of Fisheries and Aquatic Studies’, Vol. 1(3), 111-117, 2014.
- Debtanu Barman, Sagar C Mandal, Pampa Bhattacharjee and Siddhartha Pratim Datta “Status of Rudrasagar Lake (Ramsar Site) in Tripura, India” published ‘Environment & Ecology’, Vol. 31 (3), 1320-1325, 2013.
- Debtanu Barman, Sagar C Mandal, Pampa Bhattacharjee and Nandita Ray “Land Degradation: Its Control, Management and Environmental Benefits of Management in Reference to Agriculture and Aquaculture” published ‘Environment & Ecology’, Vol. 31 (2C), 1095-1103, 2013.
- Debtanu Barman, Sagar C Mandal, Vikash Kumar and Rakesh Das “Use of Immunostimulants in Aquaculture and Future Prospects – A Review” published ‘Journal of Interacademia’, Vol. 15 (3), 512-521, 2011.

C. Scientific Popular Articles (Selected)

- Debtanu Barman, Vikash Kumar, Suvra Roy, Kundan Kumar and K.V.Rajendran “Use of *Mikania cordata* extract to control Epizootic Ulcerative Syndrome Disease in Tripura, India” published in World Aquaculture Magazine, Vol.47 (1), March, 2014.
- Debtanu Barman, Atom Arun Singh, Sagar C Mandal and Vikash Kumar “Biotechnology in Aquaculture Production” published in New Zealand Aquaculture Magazine March/April, 2014.

- Deepayan Roy, R.K.Majumdar & Debtanu Barman “Fish Derived Nutraceuticalsand food preservatives” published in New Zealand Aquaculture Magazine September/October, 2013.
- Vikash Kumar, Suvra Roy, Debtanu Barman and Devanand Uchoi “A Case Study: Seed Nursing by Farmers of Udaipur, South India” published in New Zealand Aquaculture Magazine July/August, 2013.
- Vikash Kumar, Suvra Roy, Debtanu Barman, Aditya Kumar, Lokesh Paul and Wakambam Anand Meetei “Immune Evasion Mechanism of Parasites in Fish” published in Aquaculture Europe, September, Vol.38 (2), September, 2013.
- Vikas Kumar, Suvra Roy, Debtanu Barman, Aditya Kumar, Lokesh Paul and Wakambam Anand Meetei “Importance of mycotoxins in aquaculture feeds” published in Aquaculture Asia Magazine, Vol.13 (1), January-March, 2013.
- Vikas Kumar, Debtanu Barman, Apu Das and Sagar C. Mandal “Jatropha meal as a promising plant protein source in aquafeed development” published in Aquaculture Asia Magazine, Vol.12 (2), April-June, 2012.
- Vikas Kumar, Debtanu Barman, Kundan Kumar, Vikash Kumar, Sagar C. Mandal and Eef De Clercq “Anti-nutritional factors in plant feedstuffs used in Aquafeeds” published in World Aquaculture Magazine, Vol.43 (3), September, 2012.
- Debtanu Barman, Vikash Kumar, Sagar C. Mandal, Suvra Roy and Kundan Kumar and Vikas Kumar “Monoclonal Antibody and Its Application in Aquaculture” published in Aquaculture Europe, September, Vol.37 (2), June, 2012.
- Manik Datta, Sagar C Mandal, Debtanu Barman and Apu Das “A Demonstration on the Effect of Conditioning of Fry of Fish before Transportation to Farmers” published in Fishing Chimes, Vol.32 (2), May, 2012.
- Debtanu Barman, Vikash Kumar, Sagar C. Mandal, Suvra Roy and Kundan Kumar “Stress and stressors: The role of heat shock proteins” published in World Aquaculture Magazine, Vol.43 (2), June, 2012.
- Debtanu Barman, Suvra Roy, Vikash Kumar, Sagar C Mandal and Vikas Kumar “DNA Barcoding Applications in Aquaculture – Method provides efficient, Standardized species identification” published in Global Aquaculture Advocate, Vol 15(2), March/April 2012.
- Debtanu Barman, Sagar C. Mandal and Vikash Kumar “Aquaculture status and potential in the northeastern region of India” published in World Aquaculture Magazine, Vol.43 (1), March, 2012.
- Debtanu Barman, Vikash Kumar, Suvra Roy and Sagar C. Mandal “Specific pathogen free shrimps: Their scope in aquaculture” published in World Aquaculture Magazine, Vol.43 (1), March, 2012.
- Sagar C. Mandal, Pronob Das, Bipul K. Kakati, Debtanu Barman, Armaan U. Muzaddadi “Packing and Transportation of Ornamental Fishes” published in Aqua International Magazine, Sep 2010.

- Asem Sanjit Singh, Sagar C. Mandal and Debtanu Barman “Selective Breeding in Ornamental Fishes – A step toward Development in production in New Variety” published in Aquaculture Europe, Vol.35 (4), Dec 2010
- Sagar C. Mandal, Asem Sanjit Singh, M. Shaya Devi & Debtanu Barman “Genetically Modified (GM) Technology in Ornamental Fish Trade – Does the industry need GM fish?” published in Fishing Chimes, Jan/Feb, 2011.
- Atom Arun Singh, Debtanu Barman, Asem Sanjit Singh & Sagar C. Mandal “Loktak Lake: A Dying Wetland of Manipur in N E India- Developmental Measures for its Restoration” published in Fishing Chimes April, 2011.
- Debtanu Barman, Vikash Kumar, Suvra Roy & Sagar C Mandal “Clinical Enzymes and their Application” published in New Zealand Aquaculture Magazine May/June, 2011.
- Debtanu Barman, Devanand Uchoi, Sagar C Mandal & Vikash Kumar “Application of Aseptic packaging in Fisheries Products” published in Aquaculture Europe, June, 2011.
- Suvra Roy, Vikash Kumar, Debtanu Barman and Sagar C Mandal “Nanotechnology: a new dimension to increase aquaculture production” published in New Zealand Aquaculture Magazine July/August, 2011.
- Vikash Kumar, Debtanu Barman and Sagar C Mandal “Importance of effluent treatment systems for sustainable shrimp aquaculture in India” published in Aquaculture Asia Pacific Magazine July/August, 2011.
- Sagar C Mandal, Debtanu Barman and Pronob Das “Good Management Practices of Angelfish, *Pteropyllum scalare* for Enhancing Reproductive Performance” published in Aqua International Magazine, July, 2011.
- Vikash Kumar, Sagar C Mandal and Debtanu Barman “*Penaeus vannamei* culture-grooming industry and related constraints” published in Aqua International Magazine, August, 2011.
- Debtanu Barman and Sagar C. Mandal “Use of Immunostimulants in Aquaculture” published in Aquaculture Europe, September, 2011.
- Sagar C. Mandal, Debtanu Barman and Renuka Murthy S.G. “Transgenesis in future aquaculture: Environmental and Management consideration” published in World Aquaculture Magazine, Vol.42 (3), September, 2011.
- Debtanu Barman, Sagar C. Mandal and Vikash Kumar “Impacts of coastal farming and biotechnological tools for environmental protection” published in World Aquaculture Magazine , Vol.42(3), September, 2011.
- Sagar C. Mandal, Debtanu Barman and Pronob Das “Modern approach of composite fish culture – the examples of Andhra Pradesh (India) to emulate” published in World Aquaculture Magazine, Vol.42 (4), December, 2011.
- Asem Sanjit Singh, Manoharmayum Shaya Devi, Sagar C. Mandal and Debtanu Barman “Paddy cum fish culture in north-eastern states of India: A better scope in the exploitation of resources” published in World Aquaculture Magazine, Vol.42 (4), December, 2011.

- Debtanu Barman, Vikash Kumar and Sagar C. Mandal “Epizootic ulcerative syndrome (EUS) – A great concern in modern aquaculture” published in World Aquaculture Magazine , Vol.42(3), September, 2011.
- Abhay Kumar, Debtanu Barman, Sagar C. Mandal, Vikash Kumar and Suvra Roy “Disease Defence Mechanisms of Shrimp” published in Aqua International Magazine, December, 2011.
- Debtanu Barman, Sagar C. Mandal, Atom Arun Singh and Vikash Kumar “Freshwater Aquarium Fish Diseases and Their Prophylactic Measures” published in Aqua International Magazine, December, 2011.

D. Scientific Popular Newspaper Articles (Selected)

- Dr. M.C. Nandeesh and Debtanu Barman “Importance of Scientific Fish Culture to meet the Demands” published in The Largest Circulated Bengali Daily in North-East India “Dainik Sambad”, 22nd October, 2008.
- Dr. Sagar C Mandal and Debtanu Barman “Easy Maintenance of Home Aquarium” published in The Largest Circulated Bengali Daily in North-East India “Dainik Sambad”, 6th July, 2011.
- Manik Datta and Debtanu Barman “Fish Culture and Aquatic Plants” published in The Largest Circulated Bengali Daily in North-East India “Dainik Sambad”, 7 th December, 2011.
- Debtanu Barman and Sagar C Mandal “Difference between formalin added fish and non-formalin added fish” published in The Largest Circulated Bengali Daily in North-East India “Dainik Sambad”, 23rd March, 2011.
- Debtanu Barman and Dr. Sagar C Mandal “Difference between Native Rupchanda and Piranha” published in The Largest Circulated Bengali Daily in North-East India “Dainik Sambad”, 16th February, 2011.
- Debtanu Barman, Dr. Sagar C Mandal and Manik Datta “Global Warming and its Impacts on Fisheries” published in very popular English Daily “Tripura Observer”, 9th March, 2011.

E. Book/Technical Manual/Newsletter

Editor of a Technical Manual on “Methods and Techniques for Improved Production, Utilization and Conservation of Fishery Resources in North-East India” published by College of Fisheries, Central Agricultural University(I), Lembucherra, Tripura, India.

F. Paper Presentation in the Conferences/Workshops/Seminar

- Debtanu Barman, Tony Setiadharm, Nyoman Adiasmara Giri (2013). “Hatchery Management & Larval Studies on Golden Trevally (Gnathanodon speciosus, Forsskall), a Candidate species for mariculture” Paper presented in Aquaculture Europe 2013 held Trondheim, Norway.

- Pampa Bhattacharya & Debtanu Barman (2013). "Study on food and feeding biology of Ompok pabo (Hamilton) an endangered catfish of North-East India for future conservation" Paper presented in Aquaculture Europe 2013 held Trondheim, Norway.

- Pampa Bhattacharjee, Mitra Debnath, Debtanu Barman and Nandita Ray (2013). "Potentials of Reservoir Fisheries of North-East India with Special Reference to Dumbur Reservoir, Tripura, India" Paper presented in the National Seminar on "Water and Biodiversity" organized by Tripura University (A Central University), Agartala, Tripura, 22nd-23rd May, 2013.

- Debtanu Barman, Pampa Bhattacharjee and Mitra Debnath (2013). "Natural Freshwater Resources & Conservation: In Special Reference to Rudrasagar Lake,

Tripura" Paper presented in the National Seminar on "Water and Biodiversity" organized by Tripura University (A Central University), Agartala, Tripura, 22nd

-23rd May, 2013.

- Debtanu Barman and Pampa Bhattacharjee (2013). "Harnessing the power of Public-Private Partnerships (PPPs): For Sustainable Aquaculture Development of Rudrasagar Lake (Ramsar Site) in Tripura, India" Paper presented in the PAFCPPPA-2013 jointly organized by Pillay Aquaculture Foundation held in CIFRI, Barrackpore, Kolkata, 9th -11th February, 2013.

- Pampa Bhattacharjee and Debtanu Barman. "Potential of Small Indigenous Ornamental Freshwater Fish Diversity of Tripura" Paper presented in the National Seminar on Emerging Trends in Indian Aquaculture (ETIA) held in Trivandrum, Kerala, 21st -23rd March, 2013.

- Debtanu Barman, Tony Setiadharm, Adi Hanafi, Nyoman Adiasmara Giri, Sagar C Mandal, Siti Suharyyah (2011). "Larval Studies and Hatchery Management of Golden Trevally *Gnathanodon speciosus* (Forsskall) for Mass production in Captive Conditions". Paper Presented in Aquaculture America 2012 Conference held in Las Vegas, Nevada USA, 28th Feb – 2nd March, 2012.

- Debtanu Barman, Sagar C Mandal, Pronob Das and Munilkumar Sukham (2011). "Effect of partial replacement of live food by formulated feed, on the growth and spawning performance of *Betta splendens*." Paper presented in 9th Indian Fisheries Forum held in Chennai, India, 19th-23rd December, 2011.

- Sagar C. Mandal and Debtanu Barman (2011). "Land Degredation : Its Control, Management and Environmental Benefits". Paper presented in Tripura Science Congress held in Agartala, India, 8th -9th September, 2011.

- Debtanu Barman, Sagar C Mandal, Daniar Kusumawati, Ketut Maha Setiawati, Afifah Nashuka and N.A.Giri (2011). "Captive Breeding Performance and Embryonic Development of Clown Fish, *Amphiprion ocellaris* (Cuvier, 1830) in hatchery conditions". Paper presented in Aquaculture Europe 2011 held Rhodes, Greece, 18th-21st October, 2011.

- Debtanu Barman, Sukham Munilkumar, Pronob Das and Sagar C Mandal

(2011). "Substitution of Live Food with Formulated feed on the Spawning performance of Siamese Fighter Fish *Betta splendens*." Poster presented in

Aquaculture Europe 2011 held Rhodes, Greece, 18th-21st October, 2011.

- Debtanu Barman, Sagar C Mandal, Daniar Kusumawati, Ketut Maha Setiawati,

Afifah Nashuka and N.A.Giri (2011). "Embryonic development of Clown fish, *Amphiprion ocellaris* (Cuvier, 1830) in hatchery conditions for mass production". Paper presented in YOUMARES Conference held Bremerhaven, Germany, 7th to 9th September, 2011.

- Debtanu Barman, Sagar C Mandal, Daniar Kusumawati, Ketut Maha Setiawati, Afifah Nashuka and N.A.Giri (2011). "Studies on the Captive Breeding Performance and Embryonic Development of Clown Fish, *Amphiprion ocellaris* (Cuvier, 1830) in hatchery conditions". Paper presented in World Aquaculture Society meeting held Natal, Brazil, 6th June, 2011.

- M.C. Nandhesha, Antony Jesu Prabhu, P, Vikash Kumar , Debtanu Barman, Amit Das , Salim Sultan , Pradhan, P.K., Gussein, W., Ramakrishna, R., Asha Dhawan, Selvaraj, R., Purakayasta, Ramen Barmen Saumendra Nanda, Sahoo, S.K., and Das. P.C. (2011). "Women's Participation in Carp Culture Activities in India". Paper presented in 9AFAF meeting held Shanghai, China, 21st to 25th April, 2011.

- Sagar C. Mandal, Pronob Das & Debtanu Barman (2010). "Conservations of the Indigenous Ornamental Fish Biodiversity in the Rivers of Tripura State, India", In: National Seminar on Caring wetlands & Conservation of riverine fisheries held in Kolkata, India from 2nd October, 2010.

- Sagar C. Mandal, M.C. Nandeeshha, D. Barman and P.K. Pradhan (2010) on "Surveying of Indigenous Ornamental Fish Resources of Tripura and Identifying Potential Species for Mass Production". Paper presented in the Golden Jubilee National Seminar on Diversification of Aquaculture through Locally Available Fish Species (DALAF-2010) held in Kolkata, India from 27-28th August, 2010.

- M.C.Nandeeshha 1, B. Santhosh² , K.J.Joseph¹, Biswajit , M³., Sengupta , G³., Roy, S⁴., and Shelly , A. B⁵ Debtanu, B⁶. and Kumar, V⁶., Kumar, A.⁶, Roy, S⁶., Baidya, S⁶., Debbarma, S⁶.,. 2009. "Assisting small farmers with quality seed and technical support-AwF interventions in India and Bangladesh". Paper presented in the World Aquaculture Society meeting, held in USA, 21st September, 2009.

- M.C.Nandeeshha, S.C. Mandal, P.K.Pradhan and D. Barman. 2008. Ornamental fishes of Northeast India and their trade potential. Presented a paper in the conference organised as part of Ornamental Kerala 2008 on "International Conference on Ornamental fish breeding, farming and trade" held at Cochin, India from 2-4 Feb, 2008.

- B. Santhosh, , M.C. Nandeeshha, M.Karthikeyan , N. P. Singh, K. M. Abraham, S.

V. Ngachan D. Barman and K.J. Joseph. 2008 on "Use of *Amblypharyngodon mola* at a self recruiting level for extra production in composite fish culture ponds in Tripura". Paper presented in the Regional Workshop on Production and Conservation of Small Indigenous Species (SIS) for improved food and nutrition security and livelihoods of rural populations of South and Southeast Asia. 3-4 December, 2008, Dhaka, Bangladesh.

REFERENCES:

- Dr. Vikash Kumar

Scientist, Fish Health Management, Central Inland Fisheries Research Institute (CIFRI), Barrackpore, Kolkata, India

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- Dr. Suvra Roy

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- Dr. Sagar C. Mandal

Asst. Professor (SS), Department of Aquaculture College of Fisheries, Central Agricultural University (I) Lembucherra, Tripura, India

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Declaration:

I hereby declare that the all-above-mentioned entries are correct to the best of my knowledge and belief.

Place:

Date:

(Debtanu Barman)