



BISWAJIT DEBNATH, PhD

📍 Tripura (Presently in Patna, Bihar), India

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Summary

Senior Agribusiness Professional with extensive ground level experience in managing large-scale agricultural and fisheries projects, value chains and market oriented interventions across Eastern and North Eastern India. Skilled in supply and value chain management, agribusiness planning, demand estimation and ICT-based solutions, with a strong record of measurable income enhancement for farming communities. Experienced in market based consumer studies, resource and production economics of agri-enterprises, and both quantitative and qualitative social science research. Proven ability to lead multidisciplinary teams, build institutional partnerships (FPOs, banks, government agencies) and mentor young professionals for results-driven agribusiness outcomes.

Experience

Senior Scientist (Agribusiness Management) 05/2025 to Current

ICAR Research Complex for Eastern Region, Patna, India - 800014

Senior Scientist cum Head (In-charge), ICAR-KVK, South Tripura 12/2020 to 09/2023

ICAR Research Complex for NEH Region, Umiam, Meghalaya

Subject Matter Specialist, ICAR-KVK, South Tripura 07/2006 to 05/2025

ICAR Research Complex for NEH Region, Umiam, Meghalaya

Education

ICAR-Central Institute of Fisheries Education (ICAR-CIFE), Mumbai, India 08/2011

PhD: Fisheries Business Management

Doctoral Research: Doctoral Research: An Economic Analysis of Fish Production and Demand in Tripura State, India

ICAR-Central Institute of Fisheries Education (ICAR-CIFE), Mumbai, India 09/2005

MFSc: Fisheries Business Management

PG Dissertation: Resource Cost Ratio Approach to Promote Aqua Business Units: Case Studies from East & NE India

Central Agricultural University (Imphal), India 08/2003

BFSc: Fisheries Science

Awards, Honours and other Recognitions

Gold Medal & Fellowships

- **Dr. Hiralal Chaudhuri Gold Medal (2005)**

Awarded during MFSc (FBM) at ICAR-CIFE.

- **Junior Research Fellowship (JRF) (2003)**

Received during MFSc (FBM) at ICAR-CIFE, Mumbai through All India Entrance Examination By ICAR.

- **Institutional Fellowship (PhD)**

Received during PhD (FBM) at ICAR-CIFE, Mumbai through All India Entrance Examination by ICAR.

Institutional Awards

- **Best KVK Award (2021)**

Conferred by ICAR Research Complex for NEH Region, as Team Leader and Head of KVK, South Tripura.

- **Best KVK Award (North East) (2013)**

Conferred by ICAR for NEH Region, as part of the team achievement.

- **Best Technical Staff Award (2020)**

Conferred by ICAR Research Complex for NEH Region for outstanding technical contribution.

- **Certificate of Appreciation (2023)**

Conferred by District Magistrate and Collector for Coordination, Formation & promotion of FPOs in the District.

Professional Society Awards

- **Young Agricultural Economist (2020)**

National award with by the AERA, India for significant contributions to agricultural economics research.

- **Young Scientist Award (2020)**

Awarded by the Society of Krishi Vigyan (SKV), India in recognition of scientific excellence.

- **Best KVK Scientist Award (2018)**

Conferred by the ISEE (IARI), New Delhi for excellence in extension education.

- **Best Extension Professional Award (2020)**

Awarded by the SBER, India for outstanding contributions to extension education.

Awards, Honours and other Recognitions

Best Paper / Presentation Awards

International Conferences

- **Best Oral Presentation Award (2022)**
Received at the International Conference organized by CAU, COFLAA & NESFA.

National Conferences

- **Best Oral Presentation Award (2023)**
Received at the National Conference organized by College of Fisheries, Kishanganj (BASU) – TRPSF 23.
- **Best Oral Presentation Award (2016)**
Received at the National Seminar conducted by NESFA & CAU.
- **Best Paper Award (2017)**
Received at the National Extension Congress organized by SEEA & ICAR-NAARM.
- **Dr. R.T. Doshi Second Best Paper Award (2017)**
Received at the Biennial Conference organized by AERA, New Delhi.
- **Third Best Paper Presentation Award (2020)**
Received at the National Conference conducted by SKV.
- **Best Poster Presentation Award (2019)**
Received at the National Seminar conducted by NESFA, ZSI & CAU.
- **Best Poster Award (2016)**
Received at the National Conference organized by AAU & IAHF.

Extension & Technology Exhibition Awards

- **Best Exhibition in Krishi Mela (2018)**
Team achievement awarded by ATMA, South Tripura for outstanding exhibition at the Krishi Mela.
- **Certificate of Appreciation (2011)**
Received from All India Radio (AIR), Belonia for contributions to farm broadcasting and extension.
- **Prizes in Technology Exhibition (1st Prize in 2012, 2nd Prize in 2011 & 3rd Prize in 2007)**
Awarded at Diwali Mela & District Mela organized by District Administration, Government of Tripura.

Recognitions Through Adopted Farmers / Entrepreneurs

- **Best Innovative Farmer Award (Thrice)**
Conferred by CITA, ICAR, CAU to adopted entrepreneurs under the mentorship
- **Pandit Deen Dayal Upadhyay Antyodaya Krishi Puruskar (2015)**
Conferred by Government of India to an adopted farmer under the guidance

Invited Talks/ lectures in National and regional forum

1. Delivered invited lecture on '**Role of KVKs (Agricultural Science Centres) in multi-allied extension and convergence in Tripura**' during stakeholder's consultative workshop organized by Dept. of Agriculture and MANAGE (Hyderabad), India in May, 2017
2. Delivered special invited lecture on '**Dynamics of Fish Production and marketing in North East Region**' during National Webinar on Fisheries supply chain dynamics during COVID-19 organized by College of Fisheries, Central Agricultural University in June, 2020
3. Delivered lecture on '**Value addition and strengthening agro-met bulletin on Fisheries during district level stakeholders meeting on GKMS**' organized by ICAR, GKMS, Tripura Jan., 2017
4. Delivered a lecture on '**Supply- demand analysis for fish in NE India in the context of climate change**' in the workshop under NMSHE during September 2016
5. Delivered lecture on '**Fisheries Financing**' in 21-days capacity building programme on Development of skill of rural youths on pisciculture for livelihood security, April 2017
6. Delivered a lecture on '**Resource Cost Ration Approach to estimate social profitability of agricultural enterprises – the case of integrated fish farming**' on 19.07.2021 during Faculty Development Programme by Society of Krishi Vigyan (SKV).
7. Delivered a lecture on '**Conjoint analysis and RBQ for home science**' on 1/8/2021' for Home Scientists during Faculty Development Programme by Society of Krishi Vigyan (SKV).
8. Delivered two lectures on: **1) 'Methodologies for analyzing fish marketing data' and 2) 'Resource Cost Ratio approach to estimate social profitability of fisheries enterprises'** in 21-days Faculty Development Programme by Fisheries college & Research Institute, Tamil Nadu, Sep. 2020
9. Delivered Invited Talk on '**Agripreneurship of Azolla cultivation & its value-added products Implementation to enhance the rural livelihood of Tripura**' during Entrepreneurship Skill Development Programme on 12.03.2025 organized by NIT, Agartala

Invited Talks

10. Delivered a lecture on '*Women empowerment through fish based start-ups: Success stories and opportunities*' on 21.01.2025 during the district level fish festival at South Tripura, organized by Department of Fisheries, Government of Tripura.
11. Delivered Invited Talk on '*Decoding consumption patterns for agribusiness intervention in North East India: Meat and Fish*' during National Conference on Agri-tech innovation and digital pathways for Agri-startups (NCIPAS – 2026) during Feb., 2026 at ABI ICAR RC for NEHR

Engagement in project activities

Project Investigator (PI):

1. Assessing Agri-business Value Chains of Fruits and Aromatic Rice in Bihar (AGRIFAB)" at ICAR RCER Patna (Institutional Project): Ongoing
2. Demonstration under National Food Security Mission for the year 2017-18 (Rs.14.94 L)
3. Demonstration NFSM (Rice, Pulses, Cereals, & Commercial Crops) 2018-19 (Rs. 15.03 L)
4. Eco-hatchery for quality Singhi and Koi fish seed production in South Tripura (Rs. 23.3 L)
5. Input Demonstration for fisheries at Model village farming community under SMAE
6. Skill Development Programme on Freshwater Aquaculture for Schedule Caste (NFDB)
7. Growth performance of improved Fish Varieties in South Tripura under NFDB
8. Fish-based integrated farming and value-added product development for household farm women in south Tripura funded by ICAR-CIFE (Under TSP)
9. Technology assessment and demonstration under ATMA (2020) Rs. 5 L
10. Technology intervention for income generation through fishery based integrated backyard farming in tribal households of South Tripura (2022-24) Rs. 15 L under ICAR-TSP

Co-Project Investigator:

1. Biotech KISAN (Krishi Innovation Science Application Network) CO-PI (Rs. 130 L)
2. Popularization of Backyard pond Aquaculture for rural livelihood development, NABARD
3. Demonstration on scientific Integrated Pig-cum-fish Farming in south Tripura, NABARD
4. Rural Homestead Farming system for sustainable livelihood of farmers, NABARD

Coordinator/ Nodal Officer/ Team Member/Associate:

1. Demonstration on micro rain water harvesting structure 'Jalkund', NABARD, 2008
2. Paramparagat Krishi Vikash Yojana (PKVY): Organic farming, ICAR, India, 2019
3. Preparation of C-DAP Preparation (XI five year plan), 2008-09: RKVY
4. Capacity building on IFS for farmers and rural youths (2009-10): NABARD
5. Demonstration on fishery based IFS under NICRA (2011-12): NICRA (ICAR)
6. Training and demonstration under fisheries and livestock based Integrated water management in South Tripura (2011-12): SWPAL (ICAR)
7. Demonstration on Pig housing and rearing in tribal areas of South Tripura, TSP (ICAR)
8. Farm to School programme for growing horticultural garden & value addition in tribal areas of South Tripura (2014-16): TSP (ICAR)
9. Pond fish farming restoration strategies for affected fish farmers during August 2024 flood in South Tripura District' funded by ICAR-CIFA during 2024
10. Training cum Demonstration on Integrated Fish Farming funded by ICAR-Central Institute for Research on Goats (ICAR-CIRG), Makhdum
11. Conducting beneficiary class room training programmes under PMFME Scheme Directorate of Industries and Commerce, Govt. of Tripura
12. Knowledge Systems and Homestead Agriculture Management in Tribal Areas (KSHAMTA), Nutri-Sensitive Agricultural Resources and Innovation (NARI)
13. Coordinator for the Training and input distribution on upscaling and fish health management in fish based integrated farming system during 2022 funded by ICAR-CIFE

Teaching and Academic Portfolio

Teaching and Guidance:

1. Co-advisor for research work of **two PhD** and **three PG** students under FEES Division, ICAR-Central Institute of Fisheries Education, Mumbai, INDIA.
2. Guided **two MBA (HRD) Student** for Summer Internship Programme at ICAR RCER
3. Appointed as external examiner for B.F.Sc. 2nd year End-term examination in 2017 at CAU
4. Teaching courses for BSc (Hons.) at IARI Patna Hub (ICAR RCER, Patna)
5. Guest lecture for AIEEA Examination coaching classes for graduate students on 'Fisheries Economics, Financing and Marketing during 2012 to 2023 at CAU (Imphal).
6. Delivered guest lecture on Fisheries Statistics and Economics for UG final year students of College of Fisheries under Orissa University of Agriculture and Technology (OUAT)

Customized programmes for students:

1. Coordinated attachment vocational Training Course (24 days duration) under Student READY programme for BFSc Students under CAU (Imphal) during Dec. 2021
2. Coordinated In-plant training at KVK, South Tripura to acquire practical exposure to aquaculture/ agriculture & allied sector for UG Students of CAU (Inphal) for 3 weeks (2023)
3. Coordinated attachment training of BSc (Agri.) IV year Students of College of Agriculture (Central Agricultural University, Imphal) for 3 weeks during Oct. 2023.

Infrastructure development and service responsibilities

Infrastructure Development

1. Led establishment of fish hatchery facilities (carp and catfish hatcheries) at KVK, South Tripura under RKVY fund (Rs.19.10 L)
2. Led Farm Mechanization at KVK, South Tripura under SMAM scheme (Rs.17.50 L)
3. Associated with establishment of Hi-tech polyhouse at KVK, South Tripura (Rs.25.84 L)
4. Associated with construction of Administrative Building, KVK, South Tripura (Rs.180.00 L)

Service Responsibilities

5. Sectoral In-Charge Responsibilities for Computational Laboratory, Meeting and Workshop Arrangements, VIP Programs (2013-2020)
6. KVK Farm Management (2016-2019), Farmer's Database Management (2011-2020), Livestock Section (2011-2013), Exhibition Coordination (2009-2020), Library and Information Services (2009-2020), Office Vehicle Management (2015-2020)
7. Coordinated 11 flagship programmes under KVK, Compiled KVK Annual Reports (2019-20 to 2022-23), Member-Secretary for construction works (2014-15 and 2015-16)

Technology Dissemination through Frontline extension

Technology Development & Innovation

- Developed IT-based mobile application 'Matsya KISAN' for fisheries extension
- Created new methodology 'Resource Cost Ratio (RCR)'

Model Villages & Value Chain Development

- Established multiple fish seed villages: Dudhpushkurini (2008-09) and West Pilak (2021-22)
- Developed organic value chains for Ginger, Turmeric, Paddy, and Pineapple with ICCOA
- Created CHC in Devipur village (material support from IARI, New Delhi)
- Facilitated 'Contract Farming' arrangements for Mustard and Paddy Seed Production
- Developed model villages for fishery-based Integrated Farming Systems (IFS) under TSP

Technology Demonstrations & Field Trials

- Led 18 On-Farm Trials (OFTs), significant one is on fish stocking strategies (achieving production 4,845 kg/ha, BCR 3.68; horizontal spread in 34 villages, 1000+ farmers)
- Led 25 FLDs: significantly demonstrated Pabda culture in carp polyculture showing significant income increase (BCR 3.51 vs conventional 2.74); adopted in 18 villages
- Conducted 18 carp breeding cycles producing 12.2 liters spawn; 24 farmers practicing breeding with average earnings of Rs. 2.2 lakh/season
- Implemented IFS demo across 6 years achieving BCR of 2.94 (pig) & 2.26 (poultry)

**Technology
Dissemination
through
Frontline
extension**

Institutional Strengthening & Farmer Organizations

- Served as Nodal Officer for development of Pilak Farmers' Producer Company Limited, South Tripura, including successful registration and trademark (PILAK)
- Member of District Level Monitoring Committee (D-MC) for Central Sector Scheme on 'Formation and Promotion of 10000 FPOs'
- Facilitated formation of 26 Farmers' Clubs (FCs) with NABARD support, actively linking 12 FCs benefiting about 1,000 fish farmers
- Established 12 Self Help Groups (SHGs) with 107 members, including 11 women SHGs
- Created 48 Joint Liability Groups (JLGs) and 18 Farmers' Interest Groups (FIGs)
- Developed innovative institutional linkage model connecting farmers with financial (banks) and technological organizations (KVK)

Extension Activities & Outreach

- Organized/coordinated 21 group dynamics programs (382 farmers), 23 awareness camps (1076 farmers), and 152 film shows (1692 farmers)
- Conducted 60 diagnostic field visits, 38 method demonstrations (405 farmers), and provided advisory services to 2,016 farmers
- Delivered 26 radio talks and published 5 newspaper articles (local Bengali Daily)
- Organized 26 exhibitions and 9 Kisan Melas for mass technology dissemination
- Led/participated in 18 Participatory Rural Appraisals (PRAs) for village adoption
- Served as Course Coordinator/Director for different training programs (7-10 days duration) on composite fish culture, carp breeding, integrated farming systems, and Pabda seed production, sponsored by NFDB, ICAR-NEHR, MANAGE, CIFT, and DBT
- Delivered more than 200 lectures in different training conducted by KVK, S. Tripura
- More than 50 Lectures were delivered as resource person during training programmes conducted by State Department of Fisheries, College of Fisheries, NGOs, TTAADC etc.
- Documented 10 success stories on entrepreneurship development in IFS and fish farming (2018), 114 success cases of IFS under DFI programme (2022), and 23 success stories under Biotech-KISAN project (2023), 25 success stories under District Progressive farmers meet.
- Nodal Officer for Ex-trainees meet and Feedback Support System, Convener for Technology Week celebration at KVK (2022),
- Co-convener for International Conference on Responsible Aquaculture and Sustainable Fisheries Interact (RASHI) with CAU-Imphal (2022)
- Convener, Workshop on orientation cum interaction among BoD members of FPOs under South Tripura District on 14.02.2022
- Organising Secretary for Technology and knowledge Sharing Workshop, ICAR-RCER Patna and MGIFRI, Motihari, during September 22-23, 2025

Policy Contribution, Flagship Programs & Impact Assessment

- Contributed to Comprehensive District Agricultural Plan (C-DAP) for South Tripura
- Prepared Technology Inventory on Fisheries (2015-16) for South Tripura district
- Conducted Impact Analysis of KVK interventions between 2012-2018
- Prepared Impact Report for NILERD (Niti Ayog) covering period 2012-13 to 2016-17
- Implemented programs under Paramparagat Krishi Vikash Yojana (PKVY) during 2019-20
- Coordinated National campaigns: Poshan Abhiyan, Jal Shakti Abhiyan, Swachhta Campaign, and ODOP programs
- Conducted technology upgradation programs under KSHAMTA and NARI initiatives
- Acted as one of the editors for special issue (Fisheries) of Journal of Krishi Vigyan 2020
- Member of weather based Agricultural Advisory Committee at All India Radio, Tripura
- Member secretary of Scientific Advisory Committee (SAC) of KVK, South Tripura during 2021,2022,2023

1. Debnath, B., Ananthan, P. S., Biradar, R. S. and Datta, S. K. (2009) 'Resource use efficiency and social profitability of an integrated aqua-Farm, Tripura, India', *Aquaculture Economics and Management*, 13 (4): 344-354
2. Debnath, B., Biradar, R.S., Krishnan, M., Pandey, S.K., Debnath, C., Srivastava, S.K., and Das, S.C.S. (2015) 'Economic evaluation on fish production and demand in Tripura State – strategic options', *Indian Journal of Animal Sciences*, 85(10): 1139 – 1145
3. Debnath, B., Biradar, R.S., Pandey, S.K., Anathan, P.S., Mugaonkar, P. and Das, A. (2013). 'Technical efficiency of fish culture in relation to technology adoption – the case of Tripura State in India', *Indian Journal of Fisheries*, 60 (4): 69 – 75
4. Debnath, B., Krishnan, M., Ananthan, P.S., and Debnath, B. (2016) 'Awareness, perceptions and adaptation strategies of women in urban fishing village in a climate change environment - a case study in Versova, Mumbai', *Indian Journal of Fisheries*, 63 (3):120-125
5. Debnath, B., Krishnan, M., Ananthan, P.S., Debnath, B., Sharma, A. and Sharma, R. (2015) 'Fisheries of Gumti (Dumboor) reservoir in Tripura - production, performance and management', *Indian Journal of Fisheries*, 62 (3): 14 – 20
6. Das, A., Debnath, B., Choudhury, T.G., Roy D., Saha, B. and Paul, A. (2013) 'Indigenous technical knowledge for pond maintenance, fish health management and fish seed in Tripura, India', *Indian Journal of Traditional Knowledge*, 12 (1): 66 – 71
7. Debnath C. Sahoo, L., Debnath, B., and Yadav G.S. (2018) 'Effect of supplementary feeding on growth responses of endangered Indian butter catfish (*Ompok bimaculatus*) in polyculture', *Indian Journal of Animal Research*, 53 (1): 84 - 88
8. Debnath B., Biradar R.S., Anathan P.S. and Pandey S.K. (2012) 'Estimation of demand for different fish groups in Tripura', *Agricultural Economics Research Review*, 25 (2): 255 – 266
9. Debnath, B., Singh, R., and Debnath, C. (2017), Analysis of reasons behind partial adoption of recommended practices at scientific fish farming in South Tripura: Farmers' perception, *Journal of Community Mobilization and Sustainable Development*, 12 (2) 301-305
10. Debnath, B., Biradar, R.S. and Singh R. (2011) 'Resource cost ratio approach to estimate innovations and profitability – the case of an ornamental fisheries enterprise'. *Journal of Community Mobilization and Sustainable Development*, 6 (2): 155 – 162
11. Debnath, B., Singh, R., Debnath, C., and Chakraborty, R., (2019) 'Fish-cum-livestock integrated farming for efficient farm resource utilization in Tripura – A case study, *Journal of Community Mobilization and Sustainable Development*, 14 (1): 188-194
12. Debnath, B., Biradar, R.S., Pandey, S.K., Ananthan, P.S., Das, A. and Patil, P. R. (2012) 'Consumers' preferences for different fish groups in Tripura state, India', *Fishery Technology*, 49 (2): 193 – 198
13. Debnath, B., Biradar, R.S., Datta, S.K., Ananthan P.S. and Patil P.R. (2012) 'Aquaculture in uncertain environment: a cooperative's sustainable blend of commerce and ecology', *Ecology Environment & Conservation*, 18 (4): 873 – 880
14. Debnath, B., Biradar, R.S. and Singh R. (2013) 'Resource transformation and social profitability in small scale aqua-enterprises: case studies,' *Indian Research Journal of Extension Education*, 13 (2): 82 – 88
15. Debnath, B., Krishnan, M., Debnath, B., Ananthan, P.S., Sharma, A. (2015) 'Gender perspectives in adoption of technological practices by fishers and fish farmers in Tripura', *Agricultural Economics Research Review*, 28 (1):117 – 125
16. Mugaonkar, P. H., Ananthan, P.S., Samal, S.S. and Debnath, B. (2011) 'A study on consumer behaviour at organized fish retail outlet', *Agricultural Economics Research Review*, 24 (1): 133-140
17. Kumar, B., Biradar, R.S., and Debnath, B. (2013) 'Economics of fish production in Bharatpur District, Rajasthan, India', *Fishery Technology*, 50 (1): 180 – 184
18. Das, A., Upadhyay, A.D., Kumar, N.R., Prakash, S., Debnath, B. and Datta M. (2013) Marketing profile of selected fish markets of Tripura, *Agricultural Economics Research Review*, 26 (1): 115 – 120
19. Das, A., Kumar, N. R., Debnath, B., Barman D. and Datta, M. (2013) 'Fish consumers' behaviour at selected fish markets of Tripura, India', *Fishery Technology*, 50 (1): 185 – 190

20. Das A., Kumar N.R., Debnath B., Choudhury T.G., & Mugaonkar, P.H. (2013) Adoption of hygiene practices in fish markets of Tripura', *Fishery Technology*, 50 (3): 272 – 276
21. Kumar, B., Biradar, R.S., Ananthan, P.S. and Debnath, B. (2013). 'A study on fish culture management practices in Bharatpur district of Rajasthan', *Ecology, Environment and Conservation*, 19 (4): 1131 – 1137
22. Das, A., Kumar, N.R., Debnath, B. and Mandal S.C. (2012) 'Global economic crisis: causes, impact on Indian economy, agriculture and fisheries', *International Journal of Agriculture Sciences*, 4 (4): 221-226
23. Debnath, C., Sahoo, L., Debnath, B., Das, S.K., and Ngachan, S.V. (2018) 'Economics of fish farming in Tripura', *Indian Journal of Hill farming*, Special issue, pp 87-91
24. Debnath, C., Sahoo, L., Debnath, B., and Ngachan, S.V. (2017) Validation of an Indigenous Technical Knowledge (ITK) against the Epizootic Ulcerative Syndrome (EUS) of fish, *Indian Journal of Hill farming*, Special issue, Special issue, pp 15-20.
25. Choudhury, T.G., Das, A., Battacharjee, P. and Debnath, B. (2012) 'Length-weight relationship and condition factor of *Botiadar* (Hamilton) from Gumati river of Tripura, India,' *Fishery Technology*, 49 (2): 215 – 218
26. Debnath, B., Biradar R.S., Pandey, S.K., Ananthan, P.S., Krishnan, M., Das, A., and Mugaonkar, P.H. (2014) 'Constraints analysis on fish consumption in Tripura', *Indian Journal of Agricultural Marketing*, 28 (1): 36 – 45
27. Debnath, B., Biradar, R.S., Datta, S.K., Pandey, S.K. and Samal, S.S. (2010) 'Estimation of private and social profitability of aqua-Enterprise using novel resource cost ratio (RCR) approach', *Journal of Fisheries Economics and Development*, 11 (2): 1-15
28. Debnath, B., Biradar, R.S., Pandey, S.K., Krishnan, M. and Salim, S.S. (2013) 'Present status and prospects of fishery resources, fish seed and fish availability in Tripura', *Journal of Fisheries Economics and Development*, 14 (1): 30 – 41
29. Sadafule N.A., Salim S.S., Pandey S.K., and Debnath B (2014). Technical Efficiency of Shrimp Farming in Coastal Maharashtra: A production Function Approach. *Journal of Indian Fisheries Association* Vol. 41, pp 19-29
30. Das, A., Kumar, N.R., Debnath, B., Krishnan, M., Kumar, A. and Ramasubramaniam, V. (2016). Determinants of poverty movements among fisheries households of rural Tripura. *National Journal of life science*, 13 (2): 183 – 188
31. Samal, S.S., Biradar, R.S., Pandey, S.K., Ananthan, P.S. and Debnath, B. (2010) 'Review of the existing leasing policies, regulations and programs for brackish water aquaculture development in East Coast States of India', *Journal of Fisheries Economics and Development*, 11 (2): 39-50
32. Debnath, B. (2019) 'Willingness to participate in pond fish farming by rural farming family women in South Tripura. *Journal of Krishi Vigyan*, 7 (2) : 262-266
33. Sharmah D., Debnath B, Kandpal, B.K. and Das, D. (2019) Profitability of Integrated Farming System model for small and medium farmers of South Tripura, Tripura. *Journal of Applied and Natural Sciences*, 11(3):587-589
34. Debnath B. Kandpal BK, and Singh R (2020) Integrated Fish Farming Modules for Income Enhancement in South Tripura: A Comparative Assessment of Profitability, *Indian Journal of Extension Education*, 56 (1): 228-232
35. Debnath B. (2020) Impact of technology intervention on fish productivity and profitability of fish farming in South Tripura, *Journal of Krishi Vigyan*, Special Issue (pp 190 – 195)
36. Salam, M.A., Hussain S. M., Oinam G. and Debnath B (2020) Perceived Constraints of Fish Farmers in Adoption of Scientific Fish Farming in Manipur, *Journal of Krishi Vigyan*, Special Issue (pp 190 – 195)
37. Debnath, B., Sharmah, D., Kandpal, B. K., and Deka, B.C. (2020). Study on Present Status and Future Prospects of Fisheries Development in South Tripura: Strategic Options. *Journal of Krishi Vigyan*, Special Issue (pp 190 – 195)
38. Debnath, B. (2020). Secondary Extension Activities for Fisheries Technology Dissemination by Krishi Vigyan Kendra, South Tripura: An Exploratory Study on Performance. *Research Biotica*, 2(3):121-125

**Research
Papers**

39. Debnath, B. and Debnath, C. (2024) 'Operations Management in Farmer Producer Organizations: A Case Study of Bagma Agri-Producer Company Ltd., Tripura'. *International Journal of Environment, Agriculture and Biotechnology*, 9 (3): 165-172
 40. Debnath, B. (2024) 'Usefulness of Fisheries Technical Skills in Fish Business Management: Lessons Learned Through Krishi Vigyan Kendra, South Tripura'. *International Journal of Horticulture, Agriculture and Food Science*, 8 (1): 28-33
 41. Debnath S., Argade S., Debnath B., and Sarkar P. (2026) Gender dynamics in small-scale aquaculture based livelihoods of Tripura, India. *Women's Studies International Forum*, 114, 103225
 42. Debnath C., Singh, R., Debnath B. (2025) Demonstration of Feed-based Aquaculture in adivasi Villages of Tripura, North-East India. *Journal of Community Mobilization and Sustainable Development*, Volume 20(Special Issue), 2025, pp 1-7
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**Books/
Training
Manual/
Reports/
Technical
Bulletin
Edited**

1. Debnath B. and Biradar, R. S. (Eds.) 2014. Resource Cost Ratio – An Approach for Estimating Farm Resource Transformation. Publisher: Lambert Academic publishing P100
 2. Debnath B. (2011) An Economic Analysis of fish production and demand in Tripura State ICAR-Central Institute of Fisheries Education ISBN: 978-93-80469-99-7 pp 116
 3. Mandal et al (2023) Success Stories of Pabda and Minor Carp Farming ISBN:978-93-6013-649-9 College of Fisheries, CAU (Imphal) pp 101
 4. Singh D.K. et al (2026) Viksit Krishi Sankalp Abhiyan 2025 in Bihar and Jharkhand: Insights and way forward. ICAR-Research Complex for Eastern Region, Patna pp 120
 5. Singh, A.K., Chakraborti, M., Singh, S.S., Sharmah, D., Debnath, B., Gohain, I., Khan, T.A. (Eds) 2012. Technology Intervention by KVK for sustainable development in South Tripura during 11th five year plan (2007-12). Publisher: KrishiVigyan Kendra, South Tripura. Pages: 1-74
 6. Singh, A.K., & SMSs of KVK Team (Eds) 2009. Comprehensive district Agricultural Plan (C-DAP) for South Tripura. Publisher: KrishiVigyan Kendra, South Tripura. Pages: 1-113
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