



मत्स्य / एक्वाकल्चर तकनीशियन

A Fishery / Aquaculture Technician does hands-on technical work at ponds, hatcheries and fish farms — testing water quality (pH, dissolved oxygen, temperature, ammonia), feeding fish and shrimp the right amount on time, spotting...



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Govt. Sr. Sec. School, Jethantri · ब्लॉक समदड़ी · बालोतरा (Block Samdari · Balotra)

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श्री चेनाराम चौधरी

प्रधानाचार्य, डाइट बाड़मेर
Principal, DIET Barmer



श्रीमती संघमित्रा

वरिष्ठ व्याख्याता, डाइट बाड़मेर (सहयोग)
Sr. Lecturer, DIET Barmer (Support)



भरत चौधरी

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वनिता कुमारी

व्याख्याता (इतिहास) · रा.उ.मा.वि. रामसीन मूंगड़ा



कमलेश चौधरी

व्याख्याता (राजनीति विज्ञान) · रा.उ.मा.वि. टापरा

करियर मार्गदर्शन कार्यशाला, डाइट बाड़मेर (14-17 जुलाई 2026) में विकसित व लोकार्पित
Developed & unveiled at the Career Guidance Workshop, DIET Barmer (14-17 July 2026)

यह एक स्वतंत्र परियोजना है, जो सरकार की आधिकारिक करियर-मार्गदर्शन सामग्री पर आधारित है। · An independent project based on the Government's official career-guidance content.

1 About this career

A Fishery / Aquaculture Technician does hands-on technical work at ponds, hatcheries and fish farms — testing water quality (pH, dissolved oxygen, temperature, ammonia), feeding fish and shrimp the right amount on time, spotting and preventing disease, producing eggs and fish seed (fry/fingerlings) in the hatchery, and operating and maintaining aerators, pumps, nets and other equipment. With India's Blue Revolution and the Pradhan Mantri Matsya Sampada Yojana driving rapid growth, it is a practical, expanding and self-reliant career for young people who enjoy hands-on technical work.

2 At a glance

Minimum qualification	Class 10/12 pass + ITI/diploma/certificate in fisheries
Course duration	Certificate 1–6 months; diploma 1–2 years; B.F.Sc 4 years
Starting salary	₹12,000–18,000/month
Work mode	Field-based technical work at pond/hatchery/farm

3 What you need

INTERESTS

- Interest in outdoor, field work with water, fish and aquatic life
- Interest in biology, experimentation and problem-solving
- Enjoy hands-on technical work with machines and equipment

ABILITIES

- Physical fitness and stamina to work in water and heat
- Keen observation — reading fish behaviour and changes in water

- Basic measurement, calculation and record-keeping ability

KEY SKILLS

- Water quality testing — pH, dissolved oxygen, temperature, ammonia and salinity
- Feeding fish and shrimp the right amount on time and monitoring growth
- Operating and maintaining equipment — aerators, pumps, nets, feeders and test kits
- Maintaining daily records, feed and stock registers
- Hatchery operations — breeding, egg care and raising fish seed (fry/fingerlings)
- Disease identification and prevention — reading symptoms, treatment and biosecurity
- Pond preparation, liming/fertilisation, stocking and harvesting

4 How to get there

- 1 Complete Class 10/12 (science preferred).
- 2 Do a certificate or diploma in fisheries/aquaculture — in Rajasthan the College of Fisheries, MPUAT Udaipur is the best option.
- 3 For further growth, you can pursue the 4-year B.F.Sc (Bachelor of Fisheries Science).
- 4 Take short trainings in hatchery, biofloc and shrimp farming from ICAR institutes like CIFA, CIBA or CIFE.
- 5 Gain hands-on experience as an assistant/trainee at a fish farm, hatchery or shrimp farm.
- 6 With experience become a farm supervisor, hatchery manager, or start your own aqua-unit using PMMSY subsidy.

MAIN EXAMS

- Admission to diploma & B.F.Sc at College of Fisheries/MPUAT (state merit/entrance or ICAR AIEEA exam)

5 Where to study

GOVERNMENT INSTITUTES

- मत्स्य महाविद्यालय, एमपीयूएटी (College of Fisheries, MPUAT) — Udaipur, Rajasthan (<http://www.cofudaipur.ac.in/>)
- महाराणा प्रताप कृषि एवं प्रौद्योगिकी विश्वविद्यालय (MPUAT) — Udaipur, Rajasthan (<https://www.mpuat.ac.in/>)

- आईसीएआर-केंद्रीय मीठा जल जीवपालन अनुसंधान संस्थान (ICAR-CIFA) — Bhubaneswar, Odisha (<https://cifa.nic.in/>)
- आईसीएआर-केंद्रीय खारा जल जीवपालन संस्थान (ICAR-CIBA) — Chennai, Tamil Nadu (<https://ciba.res.in/>)
- आईसीएआर-केंद्रीय मात्स्यिकी शिक्षा संस्थान (ICAR-CIFE) — Mumbai, Maharashtra (<https://www.cife.edu.in/training>)

PRIVATE INSTITUTES

- समुद्री उत्पाद निर्यात विकास प्राधिकरण (MPEDA) – एक्वाकल्चर प्रशिक्षण — Kochi / All-India (<https://www.mpeda.gov.in/>)
- राष्ट्रीय मात्स्यिकी विकास बोर्ड (NFDB) – प्रशिक्षण केंद्र — Hyderabad / All-India (<https://nfdb.gov.in/>)

ONLINE

- सीफा ऑनलाइन प्रशिक्षण आवेदन प्रणाली (CIFA Training) — Online (<https://www.cifatraining.com/>)
- स्किल इंडिया डिजिटल हब — Online (<https://www.skillindiadigital.gov.in/>)

FEES

Short trainings at ICAR-CIFA/CIBA/CIFE and NFDB/MPEDA are often free or very low-cost (₹500–5,000). At the government College of Fisheries, MPUAT Udaipur, diploma/B.F.Sc fees are relatively low (roughly ₹10,000–40,000/year); private institutes can charge more.

SCHOLARSHIPS

- आईसीएआर राष्ट्रीय प्रतिभा छात्रवृत्ति (ICAR National Talent Scholarship – UG) (<https://www.icar.org.in/>)
- राष्ट्रीय छात्रवृत्ति पोर्टल (National Scholarship Portal) (<https://scholarships.gov.in>)
- सामाजिक न्याय एवं अधिकारिता विभाग, राजस्थान छात्रवृत्ति (SJE Rajasthan) (<https://sje.rajasthan.gov.in/>)

6 What the work is like

WHERE YOU WORK

Fish farms and ponds, hatcheries, shrimp/aqua farms, fish-feed factories, state fisheries department units, ICAR research centres and coastal aquaculture farms.

WORK CULTURE

Work is mainly outdoors at ponds and hatcheries; early mornings and seasonal shifts. Stocking and harvesting periods are busy. It needs a hardworking, alert team member; the field also offers good opportunities for girls and rural youth.

WHO HIRES

- Aquaculture farms and fish-farming units
- Fish and shrimp hatcheries

- Fish-feed manufacturers (e.g. Godrej Agrovat, CP Aqua, Avanti Feeds)
- Shrimp/aqua export companies and coastal aqua farms
- State fisheries departments and fish development agencies
- ICAR institutes, NFDB and fish farmer producer organisations (FPOs)

DEMAND (2026)

India is among the world's top fish producers, and under the Blue Revolution and Pradhan Mantri Matsya Sampada Yojana (PMMSY) modern units — hatcheries, shrimp farms, biofloc and RAS — are expanding fast. This steadily raises demand for technicians skilled in water quality, feeding, disease management and hatchery operations. In Rajasthan, growing reservoir-based fisheries are creating local opportunities too.

7 Career growth

- 1 Fishery / Aquaculture Technician (assistant/field)
- 2 Farm Supervisor / Farm In-charge
- 3 Hatchery Manager / Aquaculture Manager
- 4 Owner of an aqua-unit / hatchery entrepreneur

EARNINGS

Starting	₹12,000–18,000/माह
Mid level	₹20,000–35,000/माह
Senior level	₹40,000–60,000+/माह

An entry field technician/assistant earns roughly ₹12,000–18,000/month. With experience, specialised skills (hatchery, shrimp) and a supervisor/manager role this rises to ₹35,000–60,000+/month. Running one's own aqua-unit or hatchery can earn considerably more.

8 The good parts · The challenges

The good parts

- A fast-growing, hands-on career powered by the Blue Revolution and PMMSY
- A path to start your own aqua-unit/hatchery with low capital and government subsidy
- Self-reliant, field-based opportunities for rural youth and girls

The challenges

- Hard work outdoors in water, mud, heat and sometimes odour
- Risk of fish/shrimp loss from disease or water going bad
- Seasonal busy periods, early mornings and irregular hours

9 Real-life journeys

Yatindra Kashyap

Fish farmer and hatchery entrepreneur, Motihari, Bihar

Yatindra Kashyap of Motihari district in Bihar began fish farming with little knowledge and mastered the craft by learning from experts. Today he rears around 50 tonnes of fish across roughly 25 acres of ponds and produces and sells fish seed (fry/fingerlings) from his hatchery, taking his annual income to about Rs 90 lakh. His success has inspired neighbouring farmers to take up fisheries too. His story shows that by learning technical skills like water quality, feeding and hatchery operations, even a modest start can build a large, self-reliant career.

YourStory · <https://yourstory.com/2017/12/yatindra-kashyap-fishery-business>

Ranjita Saikia Deka

RAS (Recirculating Aquaculture System) fish farmer and trainer, Dhemaji, Assam

When Ranjita Saikia Deka of Dhemaji, Assam, saw her online-services business collapse during the COVID lockdown, she took up land-based fish farming in 2020 using RAS (Recirculating Aquaculture System) technology. Running on very little water and space, she rears rohu, catla, magur, singhi and roopchanda across eight tanks of about 6 lakh litres capacity — work that demands the technical skills of constant water-quality monitoring, filtration and tank management. Her turnover reached Rs 11–15 lakh a year and she has trained six to seven new RAS entrepreneurs across Assam and neighbouring states. Her story shows that by learning modern water technology, women too can become skilled, self-reliant experts in aquaculture.

The Better India · <https://thebetterindia.com/294631/assam-woman-uses-innovative-ras-technology-for-land-based-fish-farming-earns-lakhs/>

10 If this route does not work out

One exam or one attempt does not close the door. The same subjects also open these routes — entry is usually easier, and you can return to this field later.

- Pisciculturist (Fish Farming Expert)
- Fisheries Development Officer
- Fisheries Extension Officer

11 Sources & further reading

1. Rajasthan Career Guidance – Fishery/Aquaculture Technician — <https://cg.rajasthan.gov.in/careerguidance/hi/career/%e0%a4%ae%e0%a4%a4%e0%a5%8d%e0%a4%b8%e0%a5%8d%e0%a4%af-%e0%a4%a4%e0%a4%95%e0%a4%a8%e0%a5%80%e0%a4%b6%e0%a4%bf%e0%a4%af%e0%a4%a8-%e0%a4%8f%e0%a4%95%e0%a5%8d%e0%a4%b5%e0%a4%be%e0%a4%95%e0%a4%b2/>
2. College of Fisheries, MPUAT Udaipur — <http://www.cofudaipur.ac.in/>
3. ICAR-CIFE – Training Programmes — <https://www.cife.edu.in/training>
4. National Fisheries Development Board – Success Stories — <https://nfdb.gov.in/welcome/success>
5. Pradhan Mantri Matsya Sampada Yojana (PMMSY) — <https://pmmsy.dof.gov.in/>



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