

मास्यिकी महाविद्यालय ई-समाचार पत्रिका College of Fisheries e-Newsletter

Released on the occasion of
23rd Foundation Day

April-June, 2021



From the Dean's Desk



Prof. Ratan Kumar Saha

It is my great privilege to publish the first e-Newsletter Vol. 1 and Issue 1 of the college of Fisheries, Lembucherra. I express my sincere thanks and words of appreciation to the committed and thoughtful people involved in different activities of the college. An extraordinary challenge is being faced worldwide due to the massive outbreak of the COVID-19 and the effects of the same on the educational landscape of this college is of no exception. In this tough time, the college has already adopted measures to ensure delivery of the

educational content through digital means, besides maintaining the students' physical/mental health. The students of this college have shown tremendous resilience, restraint, and understanding during this challenging and stressful time. I am happy to note that the students of this college have been consistently performing better in AIEEA-PG and bagged the overall top positions in 2013, 2016 & 2019, and in the UPS category in 2020. In the SRF examination, 2020, three students of the disciplines of Fisheries Resource Management and Fish Genetics and Breeding bagged the first rank in different categories. It is my foremost prerogative to contribute to the progress of this college to a new height as well as continuing the legacy of this premiere fisheries educational institute in the country under the dynamic leadership of Dr. Anupam Mishra, Hon'ble Vice-Chancellor, Central Agricultural University (Imphal). I wish and expect that the college will yield many more successes and achievements with the cooperation of all staff and students in the days to come, which will, in turn, contribute to the progress of the entire NEH region of the country.

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Revival of Newsletter in the electronic form by Current Dean Dr. Ratan Kumar Saha who has taken over the charge as Dean for College of Fisheries, Lembucherra under the aegis of Central Agricultural University (Imphal) on the 12th Day of May 2021.



Good Performance of students in term of Placements



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Regular Online Classes were conducted as per the schedule

Section 1: Academic

Students of College of Fisheries recruited in different state Fisheries Departments

Sl.No.	Name	Post	State
1.	Dr.Mukta Singh	Assistant Director of Fisheries	Uttar Pradesh
2.	Alish Debbarma	SMS	Tripura
3.	Nelly Debbarma	SMS	Tripura
4.	Lalruatfela	ADF/District Fisheries Development Officer	Mizoram
5.	Christina Lalramchhani	ADF/District Fisheries Development Officer	Mizoram

Students READY Programme /Experiencing Learning Programme (ELP)

As an alternative to the normal existing Student's READY/ELP programme, the students were engaged and assigned to formulate key bankable projects in aquaculture/fisheries domain with intent to groom and initiate entrepreneurial skill and ideas during the COVID pandemic.

Class:

The scheduled classes for UG, PG and Ph.D. were carried out in online mode as per the timetable. Research scholars continued their PG/Ph.D. research under guidance from major advisor.

Examination

Final Tern examination of UG, PG and Ph. D programme were conducted.

Section 2: Research

New projects launched (Externally funded)

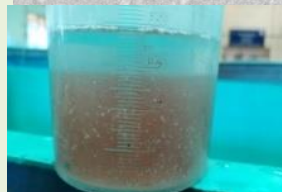
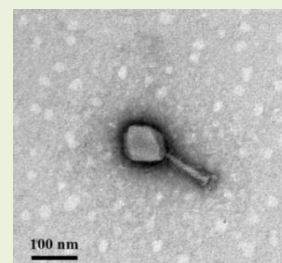
Title of the Project	Sanctioned budget (in lakhs)	Funding agency
Livelihood security and entrepreneurship development through on-farm mass cultivation and utilization of <i>Wolffia globosa</i> for fish feeding and characterization of bioactive compounds for functional product development	161.5576	DBT, Govt. of India
Establishment of RAS at College of Fisheries, CAU, Lembucherra	50.0	NFDB, Hyderabad
Technology scale-up and promotion of <i>Ompok bimaculatus</i> (pabda) as aqua-entrepreneurship option and livelihood improvement	41.542	DBT, Govt. of India
Aquaculture wastewater management through integrated Biofloc Technology and Recirculating Aquaculture System for reuse in Indian Major Carp Culture	33.84	DST. Govt. of India.



New Research Projects launched

Research highlights:

- Distribution of **5500** nos. of *Poecilia reticulata* & *Gambusia affinis* fry to the Health Department, Govt. of Tripura, Tripura under the project title “Introduction of Larvivorous Fish for Vector Control in Tripura funded by Ministry of Health, Govt. of Tripura.
- Total 26 no. of *A. hydrophila* bacteriophage has been isolated and tested their therapeutic potential, *in vitro*. Among them, isolates, **AvP-2, 7C & Mhg06** was found to be the most potent phage isolate (as per *in vitro* and *in vivo* test) for therapy against *A. hydrophila* infection in *L. rohita*.
- Under DBT funded project “Improving broodstock management and quality seed production of *Ompok bimaculatus* through application of Molecular endocrinology”, experiment was conducted to see the effect of protein and Vitamin E on gonadal maturation of pabda. Breeding was done with the fishes fed with vitamin-E experiment and eggs were transfer to the aquarium and kept for hatching. Simultaneously counting of eggs, hatching percentage and fertilization rate and survival rate was calculated.
- 1.2 millions spawn of Pengba were distributed to farmers of Tripura Under Mass Scale Seed Production component of FAB-COE-II project



- Under the project FAB-COE-II taxonomic confirmation of the collected fish specimens based on classical and molecular tools were done. A total of 491 Specimen were identified under 5 Order, 10 Families, 21 Genus and 51 species.

State-wise details of species identified

State	Total order	Total Families	Total Genera	Total Species	Total Specimens
Mizoram	2	2	3	4	8
Assam	6	9	13	18	90
Manipur	3	5	5	14	63
Tripura	3	4	12	19	271
Nagaland	1	1	3	6	59



Syncrossus berdmorei Blyth, 1860



Ompok pabda, (Hamilton, 1822)



Glyptothorax trilineatus Blyth, 1860



Osteobrama belangeri (Valenciennes, 1844)

Publications:

Huirem, B., Das, S.K., Deshmukhe, G., Kandpal, B.K., Sahoo, L., Bhusan ,S., Singh,Y.J., Debnath, C. 2021. Current Status of Fish Diversity in Rudrasagar Lake, Tripura with a note on its ornamental fish resources. *Indian Journal of Hill Farming*. (pp68-72).

Dhar,B.,Majumdar,R.K.,Balange,K., Kumar, S. H., Nayak, B.B.2021. Controlled degradation of protein and fat during fermentation of pangas (*Pangasianodon hypophthalmus*).*J Food Process Preserv.* 2021;00:e15635.<https://doi.org/10.1111/jfpp.15635>

Section 3: Extension

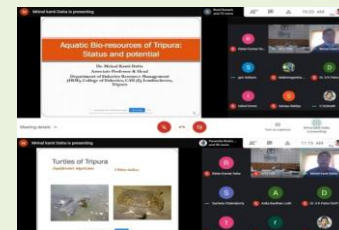
Awareness camp / Field day / Technology Camp

- One day awareness programme on “Health benefits of Nutri-cereal (Millets)” for CRPF Staff and Jawan was organized on 13th April 2021 at CRPF Group centre, Damdamia under ICAR-Indian Institute of Millets Research Hyderabad funded NEH Project “Development of Millets based Nutri-economic Model for



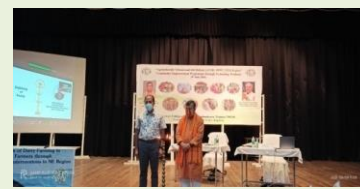
Tripura: Addressing Nutrition of Consumers & Livelihood Security of Farmers. More than 100 participants were participated in this programme.

- Total twenty awareness and sensitization programme were organized in different places at village level in all the project districts (West Tripura, Khowai, Sepahijala, and Gomati) till March 2021 by Agro-associate, Field Manager and Field coordinator and total of 713 farmers were attended that meeting.
- As part of observance of the International Day for Biological Diversity, College of Fisheries, CAU (I), Lembucherra organizes a One-day Webinar on "Aquatic biodiversity in Tripura: Its conservation for sustainable well-being of the State" in association with Tripura Biodiversity Board, Govt. of Tripura on 22.05.2021. More than 100 participants were participated.



Other Extension Activities viz. Extension Projects (MGMG, m4Agri, etc.) Village Adoption, consultancy/Advisory services etc.

- College has organised the Community Empowerment Programme through Technology Products Farmers Details for Input Distribution under Agriculturally Vibrant & Self Reliant (AVSR: अवसर) NEH Region on 09.6.2021. Hon'ble Minister of Education and Law, Govt. of Tripura Shri. R.L. Nath presided over the programme and congratulated the employees for their salary contribution for the benefits of farmers amid hardships
- College of Fisheries, Central Agricultura University Imphal under ICAR-NDRI Karnal collaborative programme on "Promotion of dairy farming among tribal farmers through technological interventions in NEH Region" a one day awareness cum input distribution programme on "Animal health and nutrition" was organised at Kambukcherra village Hezamara Block Tripura on 19 June 2021. The 30 beneficiary farmers were identified through preliminary discussions with the village farmer group. Farmers were given cattle feed (pellets) 50 kg bag each, one deworming tablet Fenbendazole bolus 1.5 gram, one Himax ointment for skin care, one 500-gram pack of micronized and balanced animal feed supplement and one pack of Himalayan batisa powder for proper digestion. The project staff comprising of Dr. J. S. Chauhan, PI Dairy project, and Co-PIs Dr. A. D. Upadhya, Dr. Biswajit Lehri and Dr. Mahesh B Tengli were present.



- **Extension Projects m4Agri, RKVY-RAFTAAR Agri-Business Incubator (R-ABI)**

• Registrations of farmers were done through the m4Agri Mobile App and Field coordinators and 186 farmers were registered in the month of March 2021. A total of 5883 farmers were registered till now.

- Continuous proactive calls (5566) and follow-up (3712) call to the farmers were made on regular basis for awareness and sensitization about the project entitled “Matsya Varta” covering all four districts.
- Total 1076565 text, 151921 voice and 17684 transactional messages were pushed to the registered farmers of different districts
- College of Fisheries RKVY-RAFTAAR Agri-Business Incubator (R-ABI) was established during March 2019 under the ‘Rashtriya Krishi Vikas Yojana - Remunerative Approaches for Agriculture and Allied Sector Rejuvenation’ (RKVY-RAFTAAR) scheme of Ministry of Agriculture & Farmers’ Welfare, Government of India.
- In continuation from the previous FY, this year we have conducted 2nd RIC on 12th December 2020 where 5 out of 6 incubates have presented and among them 2 of them got further selection to appear before CIC. On 15th March 2021 CIC was conducted and out of 2 incubates presented before CIC both of them got sanction of Grant-in Aid of Rs. 5 Lakh each.
- Conducted an Awareness program under RKVY-RAFTAAR on "Innovation and Agri Entrepreneurship" at College of Agriculture, Lembucherra on 10th February 2021.
- MGMG/ Village Adoption
- Under MGMG Programme fish seed were distributed among farmers of Vijaynagar, Satdubia Grampanchayat and Satdubia Gram Panchayat. Spawn: 2.5 million
- Magur seeds: 5338 nos and Fingerlings: 17860 nos were distributed among the farmers.
- We sensitized farmers of our MGMG village about culture of wolffia and it's utilization as feed. Impressive involvement of females was most encouraging. We will follow up and provide technical backup. On 28th March, 2021



Section 4: Others

World environment Day:

The college celebrated the world environment day-2021 on the theme ‘Ecosystem Restoration’- a global mission to revive billions of hectares, from forests to farmlands, from the top of mountains to the depth of the sea with great pomp and fervor in support to the environment. Prof. R.K Saha, Dean along with the staff and students of this college initiated planting of saplings. N. Jaswant Singh, IFS, Director of Fisheries, Govt. of Sikkim, given a special talk on this occasion.

Celebration of International day of Yoga:

7th International day of Yoga was celebrated. At the very outset, the Dean, Prof. R.K. Saha highlighted the importance of Yoga in day to day's life especially in the COVID 19 pandemic situation of the country. During the programme a total of 20 participants were participated in offline mode, as per the SOP of COVID 19. However, students, staff and faculties were performed yoga session with their family from their respective home.

