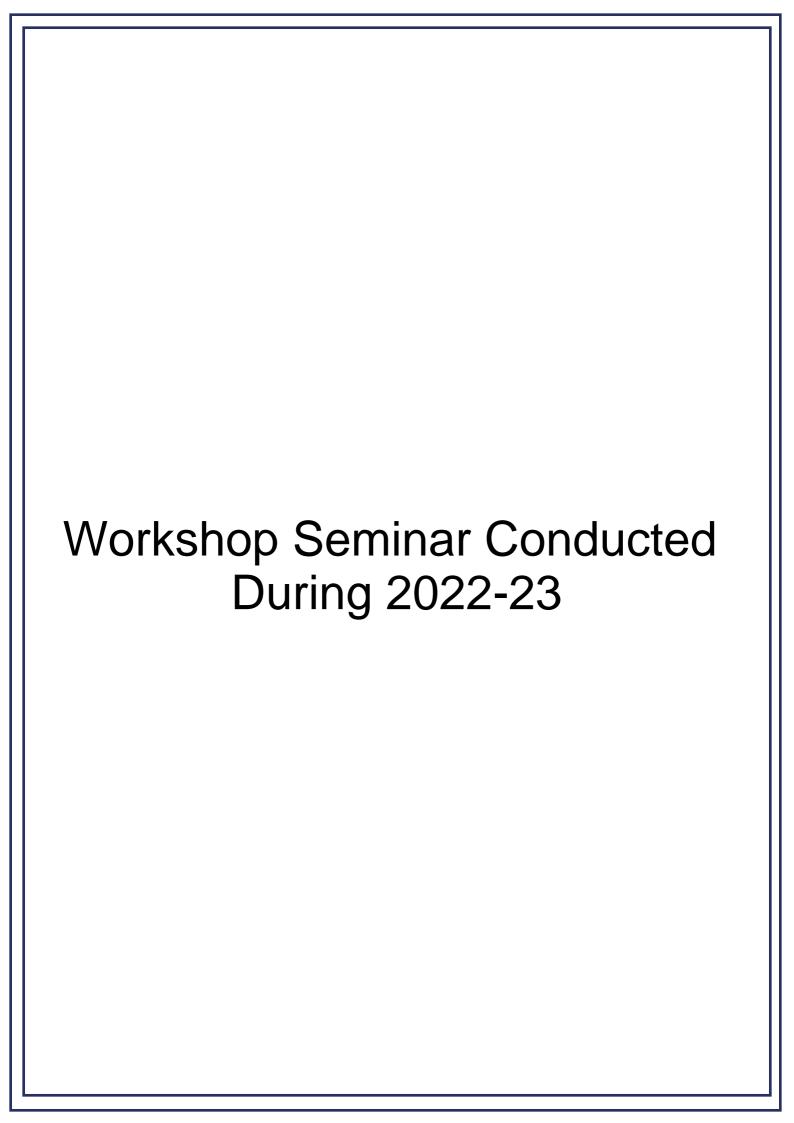
3.2.2 Number of workshops/seminars conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the year



Ornamental Fish Keeping and Entrepreneurship Opportunities in Freshwater **Ornamental Fish** Farming in West Bengal

RAMANANDA COLLEGE



BISHNUPUR * BANKURA

Pin - 722122, West Bengal
UGC Recognized & State Government Aided Constituent College
Under the Bankura University
(Accredited by NAAC at 'B++' Level)

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Date -10.11.2022

বিজ্ঞপ্তি

এতদ্বারা রামানন্দ কলেজের সকল ছাত্র-ছাত্রীদের জানানো যাচ্ছে যে আগামী ১২ ই নভেম্বর সকাল ১০:৩০ - এ প্রাণিবিদ্যা(Zoology) বিভাগ এবং Career Advancement Cell এর যৌথ উদ্যোগে 'Ornamental Fish Keeping and Entrepreneurship Opportunities in Freshwater Ornamental Fish Farming in West Bengal' এর উপর একটি বিশেষ বক্তৃতা অনুষ্ঠিত হবে। বিশেষ আলোচক হিসাবে উপস্থিত থাকবেন সুব্রত ঘোষ মহাশয়, Assistant Fishery Officer, Directorate of Fishery, Govt. of WB. এই উপলক্ষে সকলকে রামনলিনী চক্রবর্তী হলে উপস্থিত থাকতে বলা হচ্ছে।

স্থান - রামনলিনী চক্রবর্তী হল সময় – সকাল ১০.৩০ তারিখ – ১২.১১.২০২২



ক্ষাশ কলেজ,

Principal
Ramananda College
Bishnupur, Bankura

RAMANANDA COLLEGE



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(Re-Accredited by NAAC 3rd Cycle at B + Level)

Date 14.11.22

From:

Ref. No

Principal Secretary, G.B.

To Sri Subrato Ghosh Assistant Fishery Officer Directorate of Fishery Govt. Of W.B

Subject: Appreciation for your invited lecture in our college on 12/11/2022

Dear Sir,

I would like to thank you for your interesting and informative speech on "Ornamental Fish Keeping and Entrepreneurship opportunities in Freshwater Ornamental Fish Farming in West Bengal" in our college on 12/11/2022. Students and faculties were very much benefitted from your ideas on the above topic.

Thank you very much for sharing your ideas with us. All the best for your future.

Regards,

ESTD 1945 OF (BANKURA) OF

Dr. Swapna Ghoral, Ramananda College, Bishnupur, Bankura. West Bengal

Principal Ramananda College Bishnupur, Bankura

Brief Biodata

Subrato Ghosh completed his MSc in Applied Aquaculture from Barkatullah University, Bhopal in 2003 securing first position in first class. He worked as Junior Research Fellow at Department of Fishery Pathology and Microbiology, WB University of Animal and Fishery Sciences; as Senior Research Fellow both at ICAR-Central Institute of Freshwater Aquaculture, Bhubaneswar and ICAR-Central Inland Fisheries Research Institute, Barrackpore; as Part-time Lecturer in MSc Fishery and Aquaculture course at Department of Zoology, Utkal University, Bhubaneswar. He has participated in 6 State-level, 16 National and 3 International Conferences in India and presented scientific papers on freshwater aquaculture in all of them. He has authored 11 papers published in Aquaculture Asia, published by Network of Aquaculture Centres in Asia-Pacific, Thailand and in Journal of World Aquaculture Society, USA. He joined Directorate of Fisheries, Government of West Bengal as Fishery Field Assistant in January 2013 securing first position in merit list in WBPSC exam, worked as Fishery Extension Officer at Block level from June 2017 till April 2022 and presently working as Assistant Fishery Officer under this Directorate at South 24 Parganas District Headquarters.

Empowerment of rural women through income-generating ornamental fish culture and other pisciculture practices

Subrato Ghosh 122/IV, Monohar Pukur Road, P.O. Kalighat, Kolkata – 700026

Highlight points

Participation of women in finfish farming activities, both edible and non-edible (ornamental) ones, will improve economy of rural families and enhance their nutritional status via partial use of pond-reared fishes for household consumption. Economic and livelihood security of rural women can be assured. Propagation of familiar and less-familiar aquarium fishes is less capital-intensive and less labour-intensive affair, can be adopted by women in semi-urban and rural areas. An idea is presented here on different facets of women-friendly pisciculture activities with emphasis on ornamental fish farming involving women groups in South 24 Pgs, West Bengal.

Introduction

Freshwater and brackishwater pisciculture, i.e., farming of economically-important foodfishes in controlled systems under confined pond conditions have been playing important role in addressing nutritional and livelihood security of poor sustainably in developing countries. Farming of finfishes and shellfishes, i.e., aquaculture has received much attention of Central and State Governments, farming community, scientists and others in recent years. This vocation has emerged as the key viable income-generating option for poor in rural India. Rural womenfolk, especially those from marginalized section of the community, have always played important role in livelihood generating activities and traditionally women in India contributed generously in fishery and homestead pisciculture sectors.

Women-friendly freshwater pisciculture technologies like ornamental/aquarium fish breeding and rearing in rectangular cemented cisterns in home land and backyard ponds, farming of economically-important nutritious catfishes Clarius batrachus and Heteropneustes fossilis in cemented cisterns, controlled breeding and seed production of exotic carp Cyprinus carpto in cloth enclosures in ponds during winter, formulated farm-made (pellet-type) feed preparation for edible and ornamental fishes, seed production of major carps in FRP portable hatchery - these can be easily implemented by rural women utilizing locally-available resources and can be adopted on small- to medium-scale for income and employment generation (individually or in form of SHGs) without jeopardizing their household activities. As for instance, according to officers of Freshwater Fisheries Research and Training Centre (FFRTC), Government of West Bengal (WB), a minimum net profit of Rs 27,850/- can be obtained in a year (Rs 2,500-4,500/- / month) from farming of familiar ornamental fishes guppy, molly, swordtail and platy. Common interest group of fisherwomen in a village can work together by shouldering the responsibilities equally and jointly.

A report of WorldFish, Malaysia states that in 2012, female fish farmer Shahnaz Dewan at Adabari village in Tangail District, Bangladesh stocked 5500nos of large-sized fish fingerlings in 24dec pond and followed proper fish pond management practices. After 105-110 days, in early September, she harvested total 1020kg of *Tilapia nilotica* and 40kg of major carps, which she sold for BDT 140,180 (1 BDT = 0.012US\$). She then stocked carp fingerlings and harvested again in

early February 2013, this time obtained 350kg adult fishes and earned BDT 42,000. Her overall total production during 2012-2013 was 1410kg, yielding a gross profit of BDT 97,930. She served as a demonstration farmer, educating and influencing her neighbours. Likewise, quite a few noteworthy instances and success stories can be discussed about in context of eastern and north-eastern states of India, namely Odisha, WB, Assam and Tripura.

Spawn rearing and fry-staged fish production

In rural WB, most houses have a small backyard pond 100-800sqmt in area. It lies fallow, semi-clean and weed-infested, can be renovated and converted into a fish pond. These are ideally suited for rearing/nursing spawn-stage seed of *Labeo rohita*, *Catla catla*, *Cirrhinus mrigala* and exotic major carps by women of the family. In a study on involvement of womenfolk in aquaculture in rural Odisha, it was found that a backyard pond 200sqmt in area could produce as much as 19,000nos fry and 3,000nos fingerlings, yielding a total income of Rs 1,700/- in a period of 4 months. Resources around the home of resource-poor women can be used in such homestead fish seed rearing units, who can easily attend household works like cooking, taking care of their children and domestic animals.

Rearing of hatchery-produced spawn (3-days old) of economically-important cultivable freshwater fishes upto fry (22-25mm) stage is a preferred package of practices for resource-poor fisher-womenfolk, where 1,50,000nos fry of Indian major carps can be produced in 25dec pond in 15-18 days period and sold to grow-out fish farmers, giving an income of Rs 5,000-6,000/-. Smaller and seasonal backyard ponds 0.02-0.05 hectares in area having water depth 0.6-1.0mt are preferred for fry rearing. In this way, unutilized water resources of villages can be used productively. Rural women can adopt it as an income-generating activity; fry stages can be sold and supplied to fish growers in same village who will get healthy and quality major carp fry for stocking in larger ponds without bothering for transportation and mortality.

Rearing indigenous magur Clarius batrachus in cemented cisterns

The magur fish *C. batrachus* is air-breathing, nutritious, has medicinal properties, highpriced and has good demand in WB. Many unemployed youths have become interested in culture of *C. batrachus* in cement cisterns in their backyard. Its advanced fry (8-10gm) grows upto marketable
size in 4 months in rectangular cement cisterns if fed fish-meal based farm-made supplementary feed.
Entire water can be drained off from cisterns and fishes can be harvested easily. Presently 58 private
hatcheries in WB produce induced-bred healthy seeds of indigenous magur, which can be procured
for culture. Important features of this activity are: 1) Tank size: 8feet x 4feet x 3feet, two inch slope
on one side and overhead shade; 2) Indigenous Magur seeds 8-10gm size stocked @ 8-10nos /
sqfoot; 3) Seeds treated with 1ppm Potassium permanganate soln, for 5 minutes before stocking; 4)
Mixture of fish meal, ground nut oil cake and rice bran in equal proportions fed to growing fishes 2
times a day @ 20% of bw; 5) Water replenishment done 50-60% two times a week; 6) At end of 3-4
months, 12-16kg marketable-sized Magur (50-60gm) obtained from tank; 7) Smaller-sized seeds (3540 days old, 2.0-2.5 inch) can be stocked, price Rs 4-6/-/ piece.

Ornamental/aquarium fish farming

Breeding and propagation of freshwater exotic ornamental (aquarium/coloured) fishes has proved to be an important avenue for increasing employment opportunities for rural women through small- to medium-scale farming units. It is an income-generating activity and priority sector where women can be gainfully involved, either individually or as SHGs. Basic requirements for setting up a backyard ornamental fish rearing unit are: 300-400sq feet or 25-27 sqmt land area; 5-6nos rectangular cement cisterns (2000-3000lit capacity), water depth 2 feet; overhead shade; portable water source (submersible pump, tube well or well water); few glass aquaria (150lit capacity); adult fishes or brood fishes brought from market; small feed pelletizer and raw feed ingredients; live food; medicines (Malachite green, Methylene blue, Potassium permanganate); portable aerators or air blower; bio-filter; fish sampling nets; immersion heater; fish packing polythene packets; oxygen cylinder.

This sector provides huge possibilities for empowering women economically and is a flourishing avenue of self-employment generation. State of WB has substantial involvement of women in propagation of aquarium fishes and an established avenue of women entrepreneurship. It is easy to start with live bearers; once women get acquainted with the care of brooder fishes, fry handling - slowly the unit will expand.

Features in succession in breeding and rearing of goldfish Carassius auratus are: 1) Adhesive eggs, thickly planted aquarium needed; 2) Spawning grids 6mm x 6mm placed in glass tank; 3) Frame/grid placed in bottom of tank, height 5cm from bottom; 4) Male and female broodstock maintained separately for a month on balanced feed; 5) Male: Female in 1:1 or 2:1 ratio released in spawning tank; 6) Within 12-20 hours, females release eggs; broodstock taken out after spawning; 7) Golden coloured fertilized eggs visible at tank bottom, may remain attached to plants; 8) After 48 hours, eggs hatch and larvae are produced; 9) From 72nd hour, goldfish larvae fed with small rotifers (zooplankton) for further development for one week; 10) Feed on zooplankton Daphnia and Moina and powdered feed (pulverized fish meal) for next 15 days; 11) Shifted to cemented rectangular tanks (5x3) or (6x3) sq.feet; 12) Within 100-120 days, it reaches to marketable size; 13) Feed preparation with mustard oil cake, rice polish, soyabean meal, pulverized fish meal and shrimp head waste/trash shrimp meal (powdered) may be used for goldfish.

Features in breeding and rearing of live bearing fishes (guppy Poecilia reticulata, molly Poecilia sphenops, sword tail Xiphophorus hellerii)

It includes: 1) Time required to attain maturity by adults: a) For platy, swordtail, guppy: 6-8 weeks; b) molly: 12-16 weeks; 2) Eggs develop inside the body of adult mother, young ones born with or without yolk sac; 3) Spermatozoa of male retained within body of females; 4) Gestation period: 1 month, 50-70 young ones take birth in single time; 5) Males and females kept separately, introduced into breeding tank just prior to breeding; 6) Pregnant females should be handled cautiously; 7) Diffused illumination required, young ones reared on zooplankton; 8) Box-type perforated cylindrical container can be kept fitted into wall of cement tank for 2-4 gravid females, so that newborns can drop through mesh into tank water; 9) Breeding tank must have thick plantation (Hydrilla); 10) For swordtail, it takes 24-36 hours for all young ones to have birth (about 30-80nos every time); 11) After 5 weeks, it again gives birth to young ones; 12) For guppy and molly, 1 tablespoon common salt may be added into tanks where young ones remain; 13) Three-day old young ones may be stocked @ 4000-4500nos. / tank; 14) For red molly, on 6th month, those are

stocked in spawning chambers as large earthen bowls 1.5-2.0 feet diameter in ratio 5:1 (Female: Male); 15) Gravid females move along the sides in upper water column; 16) Those are carefully collected in released in maateer maalsa or earthen bowl 6 inch diameter, one female in each container; 17) In 24 hours, a female gives birth to 150 fully-formed young ones.

Women-led Uttar Jafarpur ornamental fish co-operative society and SHGs

According to scientists of ICAR-CIFA, Bhubaneswar, an investment of Rs 75,000/- (capital and recurring investment of Rs 50,000/- and Rs 25,000/- respectively) gives a return of Rs 50,000/- / year from a livebearer backyard small-scale ornamental fish culture unit, where village women can have active involvement. Both live bearers and egg layers can be bred and reared for commercial purpose, hormonal injection is not required. Backyard units (cement cisterns) can be established in 500-1000sq.feet area with investment ranging upto Rs 80,000/-. A single guppy, molly, angel fish and goldfish are rated within Rs 5-20/- / piece in ornamental fish wholesale markets in WB.

Such an enterprise generates income for the unemployed youth to women homemakers. Members of the prominent Uttar Jafarpur Women Ornamental Fish Cooperative Society in Falta CD Block, Dist. South 24 Pgs, WB (where author has visited) aspire to stick to this occupation for long. This Mohila Rangin Maachh Samabay Samity (recipient of award from Hon'ble Chief Minister of WB) was established in 2003 and started with 15 women, begun with breeding and propagation of mollies - white, black and red in large earthen bowls/vessels. Thereafter cement cisterns 6feet x 2feet size were purposefully constructed. Currently, this actively-functioning registered Coop Society in ornamental fishery sector, run by women, has 36 core members (Rita Gure, Sujata Gure, Sunita Guchhait and others) engaged in daily nurture of the young ones (bought @ Rs 1.00-2.00/-/piece) and adults of 20 species of high-valued ornamental fishes. Many of these women practice aquarium fish farming at home in addition to working for the Cooperative. They have cement tanks in their backyards for maintaining brooders or curing infected ornamental fishes, and have family-owned or shared or taken-on-lease ponds where such fishes are propagated in inverted mosquito net-type enclosures fixed in ponds, with about 50000nos of growing aquarium fishes in 8dec pond (2000-2500nos / enclosure). Marketable-sized fishes have assured supply to wholesalers in Howrah district; husbands of women members go to markets to sale the produce, profit obtained as expected by dint of honesty, hard work and self-taught skills and experience. Home-made dry food fed to growing fishes. On an average, ornamental fish farming brings Rs 7,000-14,000/- / month for each woman in Uttar Jafarpur Ornamental Fish Cooperative Society; it has brought marked change in quality of life in this village in South 24 Parganas and led to increase in their family income.

The hub of ornamental fish farming in South 24 Parganas district includes Falta Block that consist more than 50 women-led SHGs; other adjacent Blocks where women-led SHGs are working exclusively and successfully on backyard ornamental fish farming include Budge Budge-II (with 8 SHGs), Bishnupur-II (5 SHGs), Mograhat-I (3 SHGs) and Mograhat-II (2 SHGs). These women have advanced their skills and knowledge through training programmes conducted by WB University of Animal and Fishery Sciences, Kolkata and Department of Fisheries, Government of WB (both at FFRTC and Block-level). Swapna Majhi, member of WB Government-instituted Swarnali Women Cooperative in Nandabhanga village in Bishnupur-II Block breeds and propagates ornamental fish in 15 tanks at her house. At more than Rs 5,000/- per month, she has almost tripled her income.

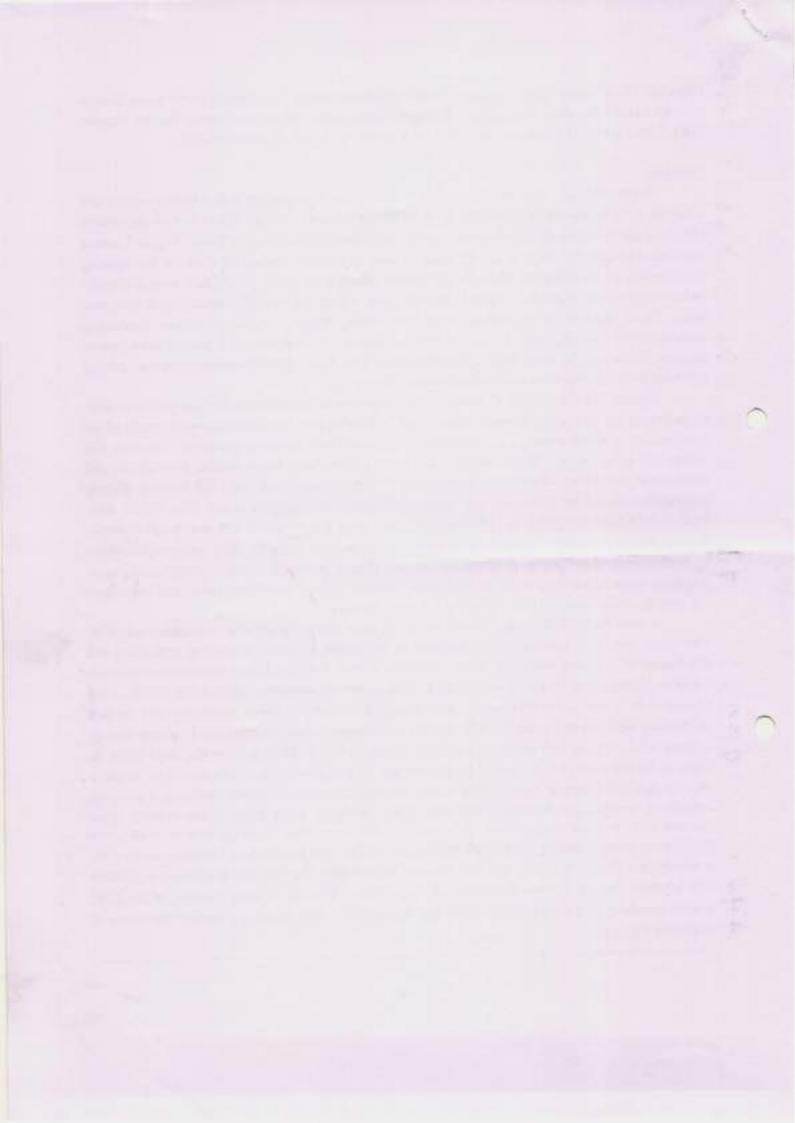
Likewise, Meen Kanya Rangin Maachh Mahila Samabay Samity Ltd., Nadia; Surya Kiran Rangin Maachh Mahila Samabay Samity Ltd., Kaliaganj Block, Uttar Dinajpur; Swapna Rangin Maachh SHG, Budge Budge-II Block to name a few, have grown up in WB, all run by women.

Epilogue

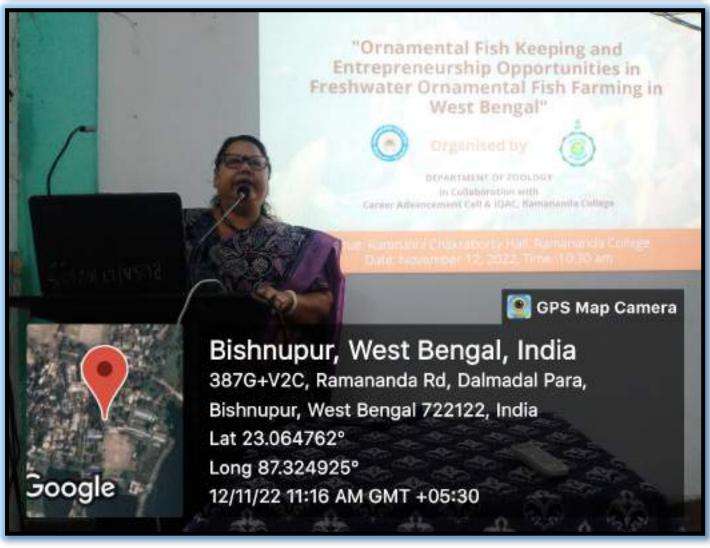
Women SHGs or Primary Cooperative Societies may be organized with common interest and similarity in economic status, especially from the poorer section of society. Many technology options have been identified through participatory approach by scientific personnel of Krishi Vigyan Kendras established in different states at district level. In view of multiple options of available fish farming technologies, labour efficiency and self-employment potential for rural women, such women-friendly technologies will be expanded widely in days to come, which will be highly rewarding in economic terms. Three quarters of the SHGs in Western Odisha Rural Livelihoods Project conducting aquaculture are women groups. Under this Project, with regards to aquaculture, women participate in auctions for the lease of water bodies, obtaining loans from banks, gaining credit worthiness, gaining technical skills and expertise to help them conduct fish culture.

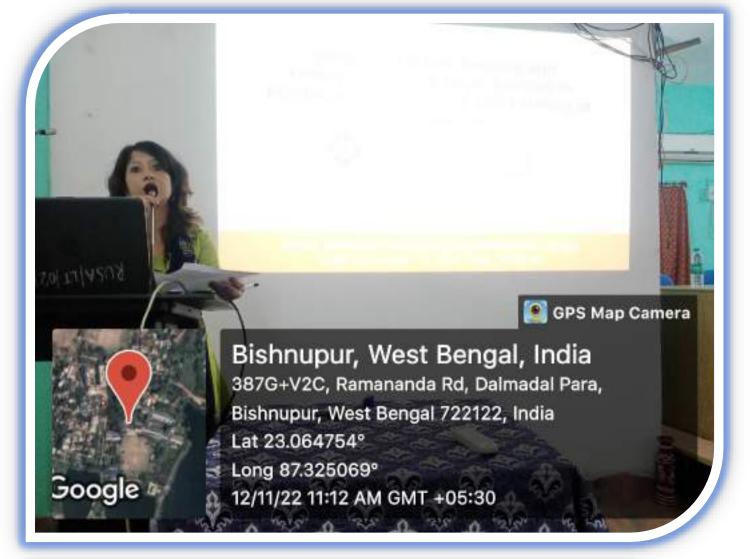
Women SHGs can serve as means of generating much needed resources and family income, as an avenue for increasing women's agency and well-being and for addressing wider needs of the communities in which women live. Government Extension staff study the condition of women in a village and sensitize them to join together and form groups. Need-based training programmes and problems of women are identified. If women may show interest in ornamental fish farming, training programmes should be conducted and imparted. Women participate in it and form SHGs. After pooling fund from the group and other sources, they form a cooperative and start small business. Women fishery cooperative steadily earns money, maintain bank accounts, bring upliftment in socio-economic status of the family. In South 24 Parganas district, women are very recently coming up in preparing value-added food products from small indigenous local freshwater fishes and from those left unsold in registered and non-registered fish retail markets.

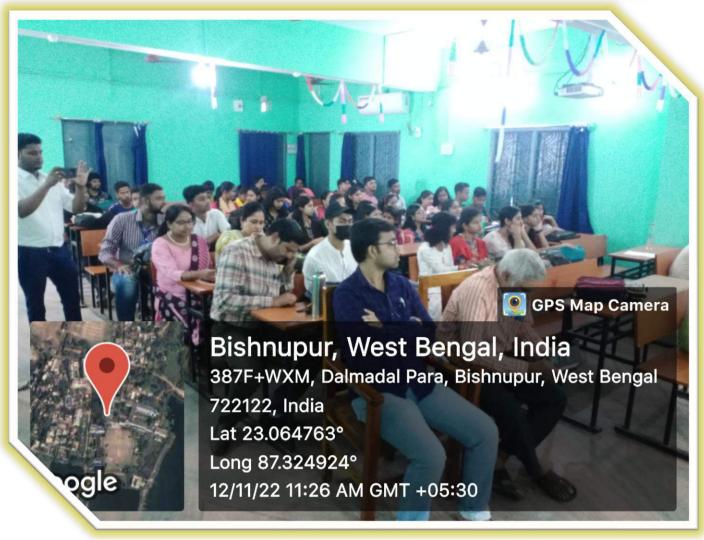
In rural Bangladesh, many women are involved in inland fishery and pisciculture activities. Year after year, they continue to be essential in improving nutrition, increasing production and distribution of food and enhancing living conditions of their families. Under the Community-Based Fisheries Management Project of WorldFish Center, many self-sustaining independent women could be created in 22 districts of Bangladesh, who manage their own fish ponds, eventually take the lead in breaking rural poverty cycle. In WB, there is ample scope of empowering rural women through integrated fish farming with poultry and duckery components in addition to those discussed above. In India, under different projects funded by Central and State Government, efforts have been made to develop skill and empower rural women in fish farming technology; different packages of practices introduced through demonstrations and participatory trials in many parts of the country. With research and extension programmes, it is expected that aquaculture vocation will be made more attractive to women. During 2006-2009, author had worked with members of Maa Biswamata SHG at Kendrapara district of Odisha and disseminated technologies like fish seed production in portable FRP hatchery, raising fry and fingerlings of major carps. It led to capacity building of the SHG women members to a considerable extent and the activities have become a sustainable source of livelihood for them.











Ornamental Fish Keeping and Entrepreneurship Opportunities in Freshwater Ornamental Fish Farming in West Bengal

in Collaboration with Career Advancement Cell & IQAC, Ramananda College Venue: Ramnalini Chakraborty Hall, Ramananda College

DATE: 12/11/2022 & Time: 10:30am

	2 1 00 ACA	TEACHING STAFF / OTHERS)	
	Subherina May	Student (Usr- 1st sem)	Zoology Hons.
	Rima Laha	Student (UG-12t Sem)	Zoology Hons.
	Bhumika Bhuin	Student (UGr-154 sem)	ZODESTR HOWS.
	Chandrilla Barat	Student (UG1 - 1st Sem)	Zoology Hong.
	Mandisa Ramakar	Student (UG1 - 1st Sem)	Zoolagy Hono.
-	Soumill Brandari	Student (Va-1,8+ sem)	-
100	Riverka Patra	Student (Vist - 1st Som)	Loology Hons.
08 ∓	Exalton Datto	Student (US1 - 5th som)	Zoology Hone
60	Susmita Lo.	Student (UGI-5th Sem)	Joology Prog.
01	Sudiato Khan	Student (UG-5th Sem)	Zoology Pared .
11.	Shubazish Dan De	Student (UG-33d Sem)	Zoelogy Prug
12.	Aditya paud	Student (UCn - 5th Sem)	Zoology Pareg.
13.	SUPTIME KAPTI	Skuleny (Uni - 3714 Sem.)	200/08M POTOS
<u>A</u>	Somaslynee 1901	Studen! (UCE - 3rd Sem)	2001 gry Progs
15. //	Mandina Tudu	Student (wer - 3nd Semy	Zoology programmer
10.	Sneha Singha	Student (UGR - 350 Sem)	XOCALDS STONE STON
17. 50	Shbeyashee Dutta.	student (va-544 sem)	Botany (phos).
18.	Snima Dest.	Student (Uh. 5th ser)	ZOOO LOGY PROS.

NO.	FULL SIGN OF PARTICIPANTS	CATEGORY (TEACHER / STUDENT / NON TEACHING STAFF / OTHERS)	DEPARTMENT
.61	Swammak Dyan	Student (UR - 184 Som.)	ZCORONY KONS
9	Soumyadeep Gamen.	Student (ug-1st sem)	1
21.	Rankegh Dhibar	Student (UB-1st sem)	2001084 HONS.
. SS	Bristi Das.	Student (Ug- 154 Sem)	poliscience - (programme)
23,	Soma Gorai	Student (un-18t Sem)	Education - (Programme)
21.	Respond Monda	Stadent (as - 156 Sem)	Bengali - (Programme)
25.	Nupre Bhain	student (ug - 2st sem)	Pol Science - (Pheylaume)
96.	Sima pal	Sludent (US - 1st Sem)	pol seron ce-(programme
4	Sibordi Mukha Kise	Student (49 154. Sem)	Bengali- (programme
28)	Sonali Skit	1	Pol Science / Programme
1600	Boardy Grein	1 % /	Pol. Science (Programme)
30)	Physmeta Sen.	Student (UG, - 1st Sem)	Pol. Schence (Programme)
31)	Akooh Banenjee	Student (UG - 1st Sem)	Pol. Science (Protention)
35)	Anito chatterise	Student (UG1 - 18t Sem)	Education (Proposime)
33)	SX Samin Atu	Studen + (49 - 18+ 504)	pol. Seience (mogra
34	Total Bagdi	student (un- 15x sem)	
33	Mournida ROY (5) DAVISONE	Student (Ua. 1st cem)	Pol. Science (Hous)
金	Ripork Das.	1 Student (Var- 6th Scm)	History (Hows)
21)	BOUNK Zey.	Student (Ua-1st sem)	Education (porgm)
38	ahumo aui	student (ua - 1st sem)	Pol. science (Program
30	Sudeshna Samanla	Student (un- 1st sem)	Zoology henours
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TOTAL STORY OF LANGUAGES	TEACHING STAFF / OTHERS)	DEPARTMENT
Rojina Khan	Student	65c Zoology Dependment
Joysam Gordi	NTS	Atc Section
Swapera glani	Principal	
appen Dot	NTS	2.0637
Amischita Ban	Asst. Pag.	Theopean
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Estd: 1945

UGC Recognized & State Government Aided Constituent College Under the Bankura University (dt.-01.01.2017)

(Re-Accredited by NAAC 3rd Cycle at B " Level)

Date

Principal From: Secretary, G.B.

Report on Ornamental Fish Keeping ABD Entrepreneurship Opportunities in Freshwater Ornamental Fish Farming in West Bengal

- Name of the organizing Department: Zoology
- Collaborating Agency: Govt of west Bengal
- Title of the Seminar: Ornamental Fish Keeping ABD Entrepreneurship Opportunities in Freshwater Ornamental Fish Farming in West Bengal
- Funded by: Ramananda College
- Date: 12.11.2022
- Level: College
- Number of participants: 50
- Details of Resource person: Sri Subrato Ghosh, Assistant Fishery Officer, Directorate of Fishery, Govt. of W.B
- Objective: Ornamental fish keeping is the second most preferred hobby in the world and the number of hobbyists for ornamental fish keeping is rising day by day because it provides a great opportunity for entrepreneurship development and income generation. The farmed fish provides high quality protein for human consumption. Fish farming can be integrated into the existing farm to create additional income and improve its water management. The farmers can select the fish species with desired characteristics to raise.
- Outcome: In an average month production is about 2,600 young and the yearly average is 37,500 pieces. The expected revenue from the ornamental fish breeding unit is estimated at Rs. 177,500/unit/year during the first year. Ornamental fishes of India are contributing about 1% of the total ornamental fish trade. These fishes are exported to the tune of 54 tons, having the value of Rupees 13.08 crores in 2020-21. It registered a growth of 66.55 % in terms of quantity and 20.59% in terms of value in INR.



Bishnupur, Bankura

Self-Development Skills: Inculcation of Human Values in Professional and Personal Spheres

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Pin - 722122, West Bengal UGC Recognized & State Government Aided Constituent Under the Bankura University (Accredited by NAAC at 'B++' Level) Mobile No.: +91,6297976519 e-mail: principal@ramanandacollege.org Website: www.ramanandacollege.org

Date - 30.11.2022

বিজ্ঞপ্তি

এতদ্বারা জানানো যায় যে, আগামী ১লা ডিসেম্বর, ২০২২, বৃহস্পতিবার, রামানন্দ কলেজের Internal Quality Assurance Cell, Career Advancement Centre এবং NSS Unit-এর উদ্যোগে একটি Motivational Speech এর আয়োজন করা হয়েছে। বিষয় : "Self - development Skills: Inculcation of Human Values in Professional and Personal Spheres"। বিশেষ বক্তা হিসেবে উপস্থিত থাকবেন বিশিষ্ট শিক্ষাবিদ, শিক্ষারত্ন মাননীয় শ্রী হরিপ্রসন্ন মিশ্র মহাশয় এবং প্রধান বক্তা হিসেবে উপস্থিত থাকবেন শ্রদ্ধেয় স্বামী অমর্ত্যানন্দ মহারাজ, মাননীয় সম্পাদক, রামকৃষ্ণ মিশন, মেদিনীপুর। উক্ত অনুষ্ঠানে কলেজের সমস্ত ছাত্রভারী, শিক্ষাকর্মী ও অধ্যাপক-অধ্যাপিকাদের অংশগ্রহণ করার জন্য বিশেষভাবে অনুরোধ জানাই।

স্থানঃ রামনলিনী চক্রবর্তী হল তারিখঃ ১লা ডিসেম্বর, ২০২২ সময়ঃ বেলা বারোটা



(एक स्था याष्ट्र) ३० ॥ ०००

অধ্যক্ষ

রামানন্দ কলেজ

বিষ্ণুপুর, বাঁকুড়া

অধ্যক্ষ রামানন্দ কলেজ

বিশ্বপুর বাকুড়া

