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Dr. Mohammad Yamin Chowdhury New Secretary of MoFL

Dr. Mohammad Yamin Chowdhury joined as Secretary of the Ministry of Fisheries and Livestock (MoFL) on 09 November 2021. Dr. Chowdhury is a member of BCS (Administration) Cadre of the 9th batch. Prior to joining MoFL, he was Secretary to the Division of Statistics and Information Management of the government. During his long and glorious administrative service life, he had been playing important role in formulating and implementing various development policies and plans of the government.



Starting his career on 26 January 1991 as Assistant Secretary in the Ministry of Labor and Manpower, Dr. Chowdhury became Deputy Secretary and Joint Secretary in the Economic Relations Division of the Ministry of Finance and Additional Secretary in the Ministry of Environment, Forest and Climate Change. In addition, he also served in the office of the Commissioner for Refugee, Relief and Repatriation in Cox's Bazar, Assistant Commissioner in Jhenaidah, Additional Deputy Commissioner and Deputy Commissioner of Sunamganj, Divisional Commissioner of Barisal and in many other important positions.

Dr. Yamin Chowdhury was born in an aristocratic Muslim family in Sadar upazila of Brahmanbaria district in 1963. He completed his graduation in Zoology in 1985 and post-graduation in 1986 from Dhaka University and Master's of Public Administration (MPA) degree in International Economic Relations from the same University in 2016. He also obtained PhD in 2021 from Jahangirnagar University. He is a proud father of two daughters.

Felicitation to Emeritus Scientist Dr. Kazi M Badruddoza at BFRI

Dr. Kazi M Badruddoza, Emeritus Scientist and President, Bangladesh Academy of Agriculture (BAAG), who is known to be an architect of agricultural research system in Bangladesh, visited Bangladesh Fisheries Research Institute (BFRI) in Mymensingh on 06 November 2021. On the occasion

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Seminar on Blue Economy: Perspective 2041 Held

A seminar titled 'Coastal Fisheries Development Management: Blue Economy and Vision-2041' was organized by Bangladesh Fisheries Research Institute (BFRI) on 01 September 2021 at the auditorium of Bangladesh Agricultural Research Council (BARC), Hon'ble Minister for Fisheries and Livestock



Mr. S M Rezaul Karim MP, Hon'ble Minister, MoFL addressing the seminar on Blue Economy.

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Dr. Yahia Mahmud Accoladed with the Integrity Award

Dr. Yahia Mahmud, Director General, BFRI was accoladed with the Integrity Award 2020-21 by the Ministry of Fisheries and Livestock for his good conduct, good morale and honesty. Hon'ble Minister for Fisheries and Livestock Mr. S M



Director General of BFRI Dr. Yahia Mahmud receiving the Integrity Award from the Hon'ble Minister and Secretary, MoFL

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Editorial

Fisheries Newsletter is a quarterly publication of BFRI. The present issue contains, various fisheries development related news, celebration of various national programs and other important events like, National Mourning Day of the Father of the Nation Bangabandhu Sheikh Mujibur Rahman, Seminar/Workshop, New Secretary of MoFL, Induced Breeding of indigenous fishes, momentous visits and tours, scientific articles and technology innovations, etc. We are pleased to outreach this current issue of the Newsletter (Volume: 2020-21, Number: 4, 1-4; 2021) with relevant information and news in a humble way. We cordially invite important news, information, and innovations in relevant areas from all concerned for the upcoming issue of the Newsletter.

Dr. Yahia Mahmud

Workshop on BFRI Annual Research Plan 2021-22

A two-day long workshop on "Annual Research Plan 2021-22" organized by Bangladesh Fisheries Research Institute (BFRI) was held on 22-23 October 2021 in the auditorium of the Institute at Mymensingh. The closing ceremony of the Workshop was graced by Mr. S M Rezaul Karim MP, Hon'ble Minister for Fisheries and Livestock as Chief Guest on 23 October. The Minister in his address as the Chief Guest remarked that science-based farming system is the main basis to produce more fish. The present government is committed to utilize both the conventional and non-conventional fisheries resources through proper development for domestic consumption and export. In



Hon'ble Minister of Fisheries and Livestock Mr. S M Rezaul Karim MP addressing the closing ceremony of the Research Planning Workshop of BFRI

harnessing the potential of our valuable freshwater and marine fisheries resources, the Ministry of Fisheries and Livestock has been implementing various development projects along with strengthening research especially on culture and post-harvest development of indigenous and non-conventional fishery items. The Secretary of the Ministry, Mr. Rawnak Mahmud in his speech as Special Guest called upon the scientists to undertake new research on value added product development to ensure diversified use of fish, production of boneless fish and manufacture of quality fish feed from available indigenous feed resources. Additional Secretary Mr. Shyamol Chandra Kamakar, Director General of BFRI Dr. Yahia Mahmud and two former Director Generals of BFRI Dr. M A Mazid and Dr. M. Gulam Hussain also spoke on the occasion. The earlier day, Prof. Dr. Lutful Hasan, Hon'ble Vice Chancellor, Bangladesh Agricultural University (BAU), inaugurated the workshop as the Chief Guest.

Additional Director General of DoF Mr. Mahbubul Haque and Professor Dr. Md. Mahfuzul Haque, Dean, Faculty of Fisheries, BAU were present as the Special Guest. Director General of BFRI Dr. Yahia Mahmud presided over the inaugural session. Hon'ble Vice Chancellor in his inaugural speech lauded that the fisheries scientists of Bangladesh immensely contributed to make the country self-sufficient in fish production. Progressive increase in fish production through science-based farming has greatly contributed in strengthening and making the vibrant rural economy of the country, the VC added. Dr. Mohosena Begum Tanu, Chief Scientific Officer presented the keynote paper and said that in near future, Bangladesh will be able to make a significant contribution to the national GDP through exporting fish and fishery products.

Dr. Yahia Mahmud, Director General, BFRI in his address as the Chair said that BFRI has so far developed 71 technologies related to fish farming and fisheries management. Live gene bank has been established to protect endangered native fish species to compensate in case if, any fish species is lost in nature. Multi-dimensional research programs have also been undertaken in collaboration with the universities to ensure diversified usage of fisheries resources with the aim of achieving the objectives of the SDGs. The Director General said, a total of 65 research proposals have been proposed in the workshop for implementing in the present year.

The workshop was attended by about 200 people including scientists, extension workers, representatives of government and non-government organizations, university teachers, entrepreneurs, fish farmers and others associated with the fisheries sector.

Felicitations to Emeritus Scientist Dr. Kazi M Badruddoza at BFRI

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of his arrival at BFRI, a grand reception was accorded to him by the Institute held at its auditorium. The reception ceremony was presided over by Dr. Yahia Mahmud, Director General of the Institute. Highlighting the life and achievement Dr. Badruddoza, the guests described the contributions that he made in national and international agricultural research and development during his long glorious professional life. Dr. M A Mazid, founding Director General of BFRI; Dr. Abul Kalam Azad, former Executive Chairman of BARC; Dr. Mirza Mofazzal Islam, Director General of Bangladesh Institute of Nuclear Agriculture (BINA); Dr. Jiban Krishna Biswas, Executive Director of Krishi Gobeshona Foundation (KGF) and other senior scientists of BFRI spoke on the occasion. The Director General of BFRI expressed his gratitude and paid profound respect to him for visiting BFRI. The Director General greeted the legendary agricultural scientist Dr. Kazi M. Badruddoza with a Crest of Honor from the institute. Dr. Badruddoza was the Chairman of Bangladesh



Emeritus Scientist Dr. Kazi M Badruddoza accoladed with a crest of honor by Director General, BFRI

Agricultural Research Council (BARC), Founding Director, Bangladesh Agricultural Research Institute (BARI) and held many other distinguished positions at home and abroad. He contributed to reorganization and establishment of the National Agricultural Research System (NARS) including reorganization of BARC as an apex body for agricultural research in Bangladesh. Dr. Badruddoza is a recipient of Independence Award 2012. He is now at 96.



BFRI Observed Sheikh Russel Day

As part of the national program, Bangladesh Fisheries Research Institute (BFRI) observed the Sheikh Russel Day marking the 58th Birthday of Sheikh Russel, the youngest and beloved son of Father of the Nation Bangabandhu Sheikh Mujibur Rahman with the theme of 'Sheikh Russel Dipto Joyollash, Odommo Atto-Biswash'. On this occasion, the officers and employees of BFRI paid a rich tribute to the memory of Shaheed Sheikh Russel by laying floral wreaths at the portrait of Sheikh Russel and a discussion meeting was held. Then prayers were offered for eternal peace of the departed soul of the other martyrs of the family who were killed on 15 August, 1975. Sheikh Russel, also the youngest brother of Hon'ble Prime Minister Sheikh Hasina who was born on 18 October 1964 was brutally killed along with his father Bangabandhu Sheikh Mujibur Rahman with most of his family members by a group of disgruntled army officers on 15 August 1975 when he was a student of class iv at University Laboratory School, Dhaka.

Fisheries Minister Inaugurated the Office-cum-Laboratory Building of BFRI Sub-station



Mr. S M Rezaul Karim MP inaugurated the newly constructed office-cum-research laboratory building research activities. Additional Secretary, Ministry of Fisheries and Livestock (Planning) Mr. Md. Taufiqul Arif, Dr. Yahia Mahmud, Director General, BFRI and Joint Secretary (Planning), MoFL, Mr. Abdul Matin, Sub-station Chief Mr. Md. Amirul Islam, and Project Director Mr. Mohidul Islam were present among others.

Hon'ble Minister for Fisheries and Livestock Mr. S M Rezaul Karim MP inaugurated the newly constructed Office-cum-Laboratory building of the Riverine Sub-station of BFRI at Patuakhali on 20 September 2021. While inaugurating the building, the Hon'ble Minister said that the government of Sheikh Hasina has adopted a comprehensive plan for conservation, development and increase of fish production through the affluence of proper research. The consistent increase in production of hilsa is an example of scientific management of this resource which allowed its safe and unhindered spawning and protection of spawning grounds. In this regard, he elaborated the programs taken by the government to increase fish production which include establishment of sanctuaries, increasing surveillance to curb unwanted fishing and allocating VGF rice fairly and impartially among the fishermen during the hilsa ban period.

After the inauguration, the Hon'ble Minister visited the laboratories of the Sub-station and observed the ongoing laboratories of the Sub-station and observed the ongoing

Farewell Reception to Secretary, MoFL Mr. Rawnak Mahmud by BFRI

BFRI organized a grand farewell reception to mark the retirement of Mr. Rawnak Mahmud, Secretary, Ministry of Fisheries and Livestock at its auditorium on 23 October, 2021. Hon'ble Minister, Ministry of Fisheries and Livestock Mr. S M Rezaul Karim MP were present as the Chief Guest in the function. The reception ceremony was presided over by Dr. Yahia Mahmud, Director General of the Institute. At the farewell ceremony, the Hon'ble Minister mentioned that devoted, active and farsighted officers are the heart of any administration. The outgoing Secretary Mr. Rawnak Mahmud was such an active and dedicated officer. The Ministry will ever respectfully remember his name for conducting various kinds of activities from the Ministry to fulfill the demands of the people for proteins with utmost sincerity, honesty and dedication during the pandemic Corona period. In addition to preparing various development policies and plans, Mr. Mahmud gave promotion to large number of officers from all given Departments under the Ministry of Fisheries and Livestock and settled all their long pending issues that were hindering the departments from smooth functioning. The outgoing Secretary Mr. Rawnak Mahmud in his statement said that he is happy and is fully contented whatever he achieved and obtained during the small span of his life. He is extremely satisfied to be able to work independently under the leadership and full cooperation of the Hon'ble Minister, he said. He will bear the love for this Ministry till his last breath, the Secretary added further. While narrating about success of BFRI, the outgoing Secretary said, he firmly believes that BFRI will flourish further by diversifying its research programs in all arena of fisheries and will go a long way to make the country prosperous through fisheries development. Dr. Yahia Mahmud, Director General, BFRI said that the cooperation and the constant guidance that he received from the Hon'ble Secretary was very helpful for him to run the institute with success and he is ever grateful to him. At the end of the program, Hon'ble Minister Mr. S M Rezaul Karim MP and the Director General of the Institute Dr. Yahia Mahmud handed over a Crest of Honor to the Hon'ble secretary in recognition of his glorious service career. All officers and employees of the institute were present on the occasion.



Mr. Rawnak Mahmud, Secretary, MoFL addressing on his farewell reception at BFRI

Dr. Yahia Mahmud Accoladed with the Integrity Award

Rezaul Karim MP formally handed over the Award to Dr. Mahmud in an Award giving ceremony held at Ministry on 26 June, 2021. While addressing as Chief Guest at the function, the Hon'ble Minister said, "Patriotism, dutifulness, honesty and sincere efforts must strictly contain within oneself" to be a good public servant. It is immoral to hold work under any pretext, the Minister said. Presided over by the Hon'ble Secretary Mr. Rawnak Mahmud, the function was also attended by the Additional Secretaries of the Ministry Mr. Shah Mohammad Imdadul Haque, Shyamal Chandra Kamakar, Subol Bose Moni, Md. Taufiqul Arif and other officers of the Ministry and departments.

Secretary of MoFL visits BFRI Marine Station at Cox's Bazar



Dr. Mohammad Yamin Chowdhury, Secretary MoFL visiting live feed research activities at MFTS, Cox's Bazar

Dr. Mohammad Yamin Chowdhury, Secretary, Ministry of Fisheries and Livestock visited the Marine Fisheries and Technology Station of BFRI at Cox's Bazar on 18 November 2021. During the visit, the Secretary observed the various research activities being conducted by the station including cage culture of Seabass and mullet in the sea, seaweed farming, oyster raft culture, tissue culture of seaweed in the hatchery, indoor seaweed culture, live feed culture, blue swimming and brood rearing research of horse shoe crabs etc. At this time, he emphasized to strengthen research for the development of non-conventional fisheries resources to meet domestic and export demand. He advised for development of technologies for commercial production of live feed for larval rearing of marine fish fry. The Secretary expressed his satisfaction over the progress of various activities of the station being implemented with the aim of developing and harnessing the potential of blue economy. He also visited the ongoing developmental works at the station under development project.

He instructed the Director General to popularize the seaweed based food among the people through the media publicity. Among others Kazi Shams Afroz, Director General of DoF, Mr. Shyamol Chandra Karmakar, Additional Secretary, MoFL, Dr. Yahia Mahmud, Director General, BFRI and other senior officials of BFRI and Departments were present.

Hilsa Ban Observed for 22 Days and Breeding Success

In order to facilitate safe spawning of hilsa fish during its peak spawning period, the government closed hilsa fishing by imposing ban for 22 days from 4-25 October, 2021. During this time, the catching, transportation, stocking, buying and selling of hilsa across the country was prohibited. The Ministry of Fisheries and Livestock issued a circular to this end on 28 September 2021. According to research findings, 51.76% of brood hilsa entirely released their eggs and consequently 39.31 thousand crore jatka have newly been recruited within the stock. It is noted that hilsa migrates to the freshwater rivers during breeding season for spawning. Consequently, a huge amount of brood hilsa is being caught during this period, which seriously hampers natural recruitment of hilsa, which exerts a serious risk of declining hilsa population with loss of production of the National flagship fish.



Seminar on Blue Economy: Perspective 2041

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Mr. S M Rezaul Karim MP graced the occasion as the Chief Guest. Hon'ble Secretary Mr. Rawnak Mahmud was present as the Special Guest. The Director General of BFRI Dr. Yahia Mahmud presided over the function. Additional Secretary Mr. Shyamol Chandra Karmakar and Additional Director General, DoF Mr. Mahbulul Haque were present as Guest of Honor. In his address as the Chief Guest, the Hon'ble Minister said in the seminar that gaining our sovereignty over the vast marine area which is almost equal to the land area of Bangladesh was possible due to diplomatic and farsighted success of the Hon'ble Prime Minister Sheikh Hasina. These maritime zone are profound resource for our blue economy. In order to harness the marine resources, government meanwhile, has started implementing various projects for harvesting of marine fish including deep sea resources like tuna and similar other deep sea fishes and strengthening of hilsa fisheries management. To achieve the potential of blue economy, we should strengthen our research activities for the proper utilization and development of both conventional and non-conventional fishery resources including seaweed culture for domestic consumption and export. At this point, the Minister quoted the statement made by the Father of the Nation Bangabandhu Sheikh Mujibur Rahman that says "Fish will be the 2nd major source of foreign exchange earnings of Bangladesh". In the context of current situation, we can easily realize the predictions then made by the Father of the Nation attaching the importance of the fisheries sector, the Minister added. Through the untiring research efforts, BFRI has been able to successfully breed and culture 31 species of endangered fish which has contributed bringing those fish back to the table, the Minister said. The keynote paper in the seminar was presented by Dr. Md. Latiful Islam, Principal Scientific Officer, Brackishwater Station, Khulna. The seminar was attended by senior officials of the Ministry of Fisheries and Livestock, Department of Fisheries, scientists of BFRI, researchers, university teachers and fishermen representatives.

Dr. Yahia Mahmud re-appointed as Director General of BFRI



Upon cancellation of post retirement leave (PRL) Dr. Yahia Mahmud re-appointed as the Director General of Bangladesh Fisheries Research Institute (BFRI) on 12 October 2021 for two years. On being reappointed, Dr. Mahmud joined the post on 13 October 2021. It may be mentioned here that before reappointment, Dr. Mahmud served as Director General of BFRI from 18 February 2016 till his retirement on 30 September 2021. During this time, he led and managed the institute very successfully. Under his dynamic and talented leadership, the institute developed a good number of aquaculture and fisheries management technologies many of which have been adopted by the fish farmers and entrepreneurs. Dissemination of these technologies has immensely contributed to increase fish production and rural employment. He established Live Gene Bank of Indigenous Fish Species at BFRI for the first time in the country and developed a new and high yielding strain of Rohu fish (Subarna Rui). Govt also renamed the Haldia river as 'Bangabondhu Matsya Heritage' upon his proposal on the occasion of Mujib Centenary. Dr. Yahia also significantly contributed to conserve and develop the local indigenous fish resources in the country. In recognition of outstanding contribution of BFRI in fisheries research and development under his leadership, the institute was adorned with the Ekushey Padak 2020, KIB Krishi Padak 2018, Mecantile Bank Award 2019 & Bangladesh Academy of Agriculture (BAAG) Padak. The number of his national and international publication is 140. Dr. Mahmud was born in an eminent Muslim family of Syed Vakuri Village in Ishwarganj Upazila of Mymensingh District.

Recent Research Success

Artificial Breeding and Nursery Management of Chitra Fish

Chitra is one of the most economically important and fascinating fish of the coastal region (locally known as Payra, Bishtara). Its scientific name is *Scatophagus argus* and English name is spotted scat. Once Chitra fish was found plenty in the rivers and canals of the coastal areas, but due to climate change, environmental catastrophe and overfishing, the Chitra fish is on the verge of extinction (IUCN, 2000). Despite the enormous demand and potential for farming, Chitra fish farming did not flourish due to scarcity of fry and lack of



Fig-1: Matured Chitra fish



Fig-2: Hormonal treatment of brood Fish



Fig-3: Artificially induced fry

technology. BFRI recently has been able to successfully develop breeding technology of Chitra through the successive research at the Brackishwater station, Paikgacha, Khulna. Chitra breeds during summer and the peak breeding occurs from 15 May - 15 June. The fish get maturity in the second and third year. The growth of female Chitra is faster than male. A fully matured Chitra lays 2500 eggs per gram of body weight. During induced breeding in the hatchery, the water salinity raised up to 30 ppt by adding brine after boiling for 36-48 hours. The hormones 5-GnRH α and LHRH α are especially effective for artificial breeding of Chitra. Breeding occurs after 36-42 hours of application of the hormone and fertilization occurs with the mixing of eggs and sperms. Within 20-24 hours after fertilization, the fry hatches out. The initial stocking density of fry in the rearing tank is 200-300/l. Feeding should be done externally after 36 hours of hatching. Fish fry should be fed with micro-algae in the first month. The fry can also be fed with artemia up to 35 days. Within 35 days, fry becomes 0.8-0.8 cm in length with survival rate of 20-30%. At this stage, the fry can be transferred to the nursery. For Chitra fish spawn rearing, suitable water temperature is 28-30°C, salinity 28-30 ppt, dissolved oxygen 4-6 ppm, pH 7.5-6.5, nitrite <0.01 ppm and ammonia 0.00-0.1 ppm.

Breeding Success for Endangered Fish Species (Puiya, Loitty Tengra and Kursha)

BFRI scientists from the Freshwater Sub-station in Syedpur have successfully developed the artificial breeding and fry production techniques of 3 endangered fish species i.e., Puiya, Loitty tengra and Kursha through the incessant research. The research team was led by the Sub-station Chief and Principal Scientific Officer Dr. Khandaker Rashidul Hasan and his three fellow scientists- Mr. Ishtiaq Haider, Saokot Ahmed and Maliha Hossain Mou. It is to be noted that these species were collected from Teesta, Chikli river of Rangpur, and Barati and Burikhora rivers of Nilphamari. In our country, Puiya (*Acanthocobitis botia*) in different region is known as Notoa, Khalai Muchari, Bilvari etc. It is normally found in small hilly rivers of Sylhet and Sunamganj districts and in small rivers of Dinajpur, Rangpur and Mymensingh districts. The egg-laying capacity of Puiya fish varies from 5,000 to 6,000. The breeding season of the fish ranged from May to August with a peak in June.



Puiya (*Acanthocobitis botia*), Loitty tengra (*Mystus bleekeri*) and Kursha (*Labeo dero*)

Loitty tengra (*Mystus bleekeri*) is a freshwater fish, regionally known as River Tengra, Guilla Tengra or Loitty tengra. It is found in freshwater rivers and adjoining reservoirs in the north-western and south-eastern districts of the country, especially during the monsoon and winter seasons. In the northern districts of Nilphamari, Rangpur and Dinajpur, it is commonly found in the Teesta, Burikhora, Barati, Chikli and Bhusi rivers. After the initial success in the production of Loitty tengra fry through artificial breeding for the first time in the country in 2020, the technology was standardized and optimized during the current breeding season. Studies have shown that a matured 20-30g Loitty tengra has an egg-laying capacity of 25,000 to 40,000. During the breeding season, healthy mature males and females were selected from the research ponds and hormonal injections were applied to breed the fish artificially. After 7-9 hours of hormonal treatment, the female laid eggs. The eggs of this fish are sticky and after about 20 hours, fry comes out from the eggs.

On the other hand, Kursha (*Labeo dero*) is a freshwater fish, locally known as Kursha or Katal Khushi. Freshwater reservoirs, especially mountain springs and shallow rivers are their normal habitat. The fish is delicious and rich in nutrients that are good for the human health. Studies have shown that a matured Kursha fish (200-250g) has an egg-laying capacity of 50,000 to 60,000. The breeding season of the fish is from May to August. However, the peak breeding season is June.

National Mourning Day Observed at BFRI

On 15 August, 2021 BFRI observed the National Mourning Day bestowing rich tribute marking the 46th death anniversary of Father of the Nation Bangabandhu Sheikh Mujibur Rahman, the great architect of independent Bangladesh. The day long program of the institute started through hoisting National Flag half-mast. Other programs of the day included discussion meetings, offering prayers for the martyrs who died on this day.

Dr. Yahia Mahmud, Director General, BFRI spoke on the life and struggle Bangabandhu did for the cause of freeing the Bengali nation from oppression of the then Pakistani ruler and to create an independent homeland for the Bengalis. Within a short time after liberation, Bangabandhu, the charismatic leader made the courageous Bengali nation known to the whole world and took Bangladesh to a new height, the Director General added. He urged the scientists to work hard with utmost sincerity and innovative mind imbued with the ideals and the path directed by Bangabandhu to help building 'Sonar Bangla', the dream of the Father of the Nation. Among others Dr. Md. Khalilur Rahman, Director (Res and Plan), Dr. AHM Kohinoor, Director (Admin and Fin); Chief Scientific Officers Dr. Md. Zulfikar Ali, Dr. Mohosena Begum Tanu and other officers of the institute spoke in the meeting. At the end, special prayers were offered for eternal peace of the departed soul of Bangabandhu Sheikh Mujibur Rahman and other martyrs.



Dr. Yahia Mahmud, Director General of BFRI delivering Speech on the occasion of National Mourning Day

Live Gene Bank of SIS inaugurated at Syedpur

Dr. Yahia Mahmud, Director General inaugurated the 2nd live gene bank of native Small Indigenous fish species (SIS) in the Freshwater Sub-station of BFRI at Syedpur on 20 November 2021. The purpose of establishing gene bank is that if any fish population is lost in nature, then they will be replenished through breeding of fish from the gene bank. He further said that the gene bank at Syedpur will serve as a replica of the gene bank established at the Freshwater Station in Mymensingh as an alternate stock, in the event of any inversion in gene bank in Mymensingh. Then the Director General visited the research activities of the Sub-station and provided necessary instructions to the scientists in achieving the desired



Director General of BFRI Dr. Yahia Mahmud visiting the on farm trial of BFRI evolved technology of Tengra and Sarpunti

Mr. Ishtiaq Haider, SSO, Upazila Fisheries Officer Ms. Anguri Begum and other scientists of the sub-station were present in the meeting.

results from the ongoing research. The Director General was accompanied by Dr. Md. Anisur Rahman, CSO, Dr. Zulfikar Ali, CSO (Planning), Dr. Mohosena Begum Tanu, CSO (Research), and Dr. Anuradha Bhadra, PSO (Planning and Evaluation) Mr. Md. Shahidul Islam, PSO (Planning) and others.

The next day on 21 November, a meeting of exchange of opinion on technology based fish culture was held at Naodabas village of Domar upazila of Nilphamari district where a technology based culture of Tengra and Sarpunti is being implemented by the Syedpur Sub-station. Prior to the meeting, the performance of the on field trial of the technology based culture of Tengra and Sarpunti was shown to the visiting group. During exchange of opinion, the Director General said that researchers, extension officers and farmers should work together in good coordination and cooperation to properly develop the fisheries sector of the country. The Principal Scientific Officer of the Sub-station Khandaker Rashidul Hasan,

Fisheries Newsletter publishes information/data/report on all phases of fisheries research, development and management activities from home and abroad. Contributions are invited for publication. The editor reserves the right to select or shorten them to meet space requirement. The newsletter comes out in January, April, July and October each year.

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