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From the Director's Desk

***'A farmer is a magician who produces money from the mud.'* -Amit Kalantri**

Coping with the newer challenges in terms of more and more dangerous waves of COVID-19 pandemic, shrinking agrarian economy and reduced policy support in the field of agri-operations and agri-marketing has pushed the farmers' tendency towards digital utilities. For helping the farming community in such a challenging situation, the Krishi Vigyan Kendras (KVKs) and ICAR-ATARI Kolkata were always in the forefront by giving technological support as well as organizing different workshops/ seminars/ webinars/ online programmes. In this process of successful technology application, the farmers were trained, made aware and capacitated with technical inputs related to agronomic operations, horticulture, crop production, natural resource management, livestock production and health as well as fisheries. Besides this mandate, KVKs were also busy with the celebration of various programmes like 'Mahila Kisan Diwas', 'World Soil Day', 'World Food Day', 'National Milk Day', 'Constitution Day', 'Vigilance Awareness Week', 'Swachhta Hi Suraksha' etc. for the benefit of farmers and other stakeholders.



During the reported period, the scientists and staff of this institute were also busy in organizing webinars, reviewing and stringent monitoring of various on-going and special programmes and projects being implemented for the farming community including the monitoring of quality and number of agro-advisories to the farmers.

In terms of publication, the scientists of this institute as well as the constituent KVKs were engaged in publishing research papers, technical and popular articles and technical bulletins/ reports etc. for effective dissemination of scientific knowledge.

I congratulate all the scientists and staff for timely publication of the current issue and earnestly hope that this issue will be able to fulfil the desired expectations. Feedbacks and suggestions are welcome for further fine tuning.

S. K. Roy

(S. K. Roy)

Technologies applied successfully

Successful pen culture in beel changed the fate of fish farmers

The land of sculptures and heritage, Murshidabad district, West Bengal, is not only important from archaeological point of view but also this district is blessed with many large wetland, oxbow lake, floodplain wetlands etc. Bhagirathi river, a tributary of the holy river-Ganges, has flown through this district and has created many wetlands in its course of direction. Most of these wetlands are maintained by different Primary



Fishermen Cooperative Societies (PFCSs). One such ideal example was Dumnidaha Beel which is maintained by Andiron PFCS. This PFCS has 258 members and all of them belong to fishermen community. Most of the members earn their livelihood by capturing fish from wetlands.



The daily income of the members was reducing gradually due to the compulsive restricted fishing from those wetlands. There were several reasons for which aquaculture did not grow up as industry except capturing fishes as main activity for livelihood of the members. Several environmental ill-effects e.g. disconnection of wetland from main river, pollution etc. have gradually reduced the natural

stock/source of different types of fishes which ultimately affected the livelihood of the dependent fishermen in the wetlands.



During one training program, conducted by Murshidabad KVK (Sargachhi), the participant fishermen raised the issues. The scientists of KVKs took the matter very seriously and discussed with fish farmers, local administrators and others related persons for the way out. At first, a baseline survey in collaboration with the members of the PFCS was conducted without any delay. It was found that fish stock depletion was the main reason for reduction in income. Subsequently, the issue was also discussed with the Director and other scientists of ICAR-CIFRI, Barrackpore. Finally, pen culture demonstration in that wetlands (beels) was planned in collaborative approach under SCSP programme. A mass awareness program was conducted for the members of the PFCS. Then, with the help of ICAR-CIFRI, two ICAR-CIFRI HDPR pen of 0.1 ha was provided and installed in the wetland under the guidance of Sargachhi KVK. After successful installation, one 2 days capacity building training program was organized by the KVK on pen culture practice. Then, around 60000 early fry stage of IMC, two HDPE coracle, one HDPE fishing boat and two ton of CIFRI cage grow feed were provided from ICAR-CIFRI, Barrackpore. Continuous monitoring and time to time technical interventions were made by the scientists of KVK and CIFRI.

After three months, the fishes from the pens were released as advanced fingerlings in the wetland. Farmers started feeding the fishes under the constant guidance of KVK. After almost one year, the fishermen harvested around 14580 kg fish with productivity of 729 kg/ha which was around 27% increased production as compared to previous years from the wetland. Experiencing the success of the technology, the PFCS installed two more cages with partial funding support from KVK.



In terms of income, it could be clearly observed that the members were being able to fetch 40 to 50 percent more income in their monthly earnings after adopting that technology. Not only the individual income was increased but environment problem was also addressed. Ultimately, the wage earners found a conducive scope of earning towards making the society a self-sustaining one. After being proved as economically viable, many other fish farmers' societies in the district are practicing this technology in large scale.

Contributor: Murshidabad KVK (Sargachhi), West Bengal

Vermicompost production: A lucrative venture of farmers' earning

Mr. Sanjit Kumar Patra is a dynamic, young and energetic farmer from Village- Taherpur, P.O.- Nanda, P.S.- Singur, District- Hooghly, West Bengal. From his very young age, he was interested in agriculture. As their livelihood was mainly dependant

on agriculture, Mr. Santra used to help his father for different agricultural activities spread over 2 acres land. In some plots, he practiced organic production through using vermicompost.



Initially, he used to purchase, but, due to unavailability and high cost, he decided to produce vermicompost from his own. He faced various problems like which earthworm to be selected, what type of raw materials to be used, what time to be harvested and many others. However, in the meantime, he heard about the name of KVK from an ex-trainee of Hooghly KVK and visited Hooghly KVK to get information about vermicompost production technology. Keeping in view the interest of Mr. Patra, KVK scientists decided to involve him under ARYA project. Accordingly,

he was provided with training and exposure visits to establish his vermicompost production unit as an enterprise.

Within a short span of time, he made vermicompost production as a successful venture. His earning has reached to 2.4-2.6 lakh per year through production and selling of vermicompost and earthworm. After adoption of the technology, his annual net income has increased from Rs. 75000/-



to Rs. 178500/-. The details of production and income are given in the table.

He is planning to start vermiwash production from his production unit as a by-product very shortly for additional income. He has good liaison with local panchayats,

co-operatives, input dealers and SHGs for selling his product. Now, he has become a popular face



in the area. Many rural youths contacted him for information and showed interest for vermicompost



production. His success definitely motivated other farmers, farm women and rural youths which increased horizontal expansion of the technology in Hooghly and surrounding districts.

Contributor: Hooghly KVK, West Bengal

Item	Annual production (kg)	Annual income (in Rs.)
Vermicompost	31500	252000/- @ Rs. 8/- per kg
Earthworm	10	10000/- @ Rs. 1000/- per kg
Total		262000/-

Freshwater prawn culture: A remunerative enterprise of farmers' income

Sh.Pradeep Kumar Bhuyan, age 47 years, from Village-Katisahi, Block- Baliapal, District- Balasore, Odisha, is a progressive fish



farmer. He belongs to a joint family who is maintaining livelihood and other family expenses from

1.2 acres of cultivated land and 2 acre pond. He used to cultivate Indian Major Carps (IMCs) like catla, rohu and mrigal in his pond with an average annual income of around Rs.182000/-. He was enthusing new fish species for his pond to fetch higher income. He contacted Balasore KVK scientists



through AFO, Baliapal, Odisha and accordingly, scientists advised

him to culture fresh water prawn- *Macrobrachium rosenbergii* for its disease resistant, market demand, better yield and more income. The KVK provided him all technical know-how through training and exposure visit. In the next year, Sh. Bhuyan started freshwater prawn culture with catla in 1 acre pond under the supervision of KVK. He earned Rs.278000/- from harvesting of 4.7 q freshwater prawn and 4.5 q catla. The income was 52.7 % more than the earning of previous years. Now, he is cultivating freshwater prawn along with IMCs in his 2 acre pond. Ultimately, he has established himself as a progressive fish farmer in the area and is helping other fish

farmers. From his success, nearly 28 fish farmers of his villages started adopting this technology.

Not only that, fish farmers formed a number of aquaculture based FPOs in different clusters for

getting better inputs, market prices and export channels of fishes.

Contributor: Balasore KVK, Odisha

Important activities of KVKs (July to December, 2021)

Sl. No.	Activity	Achievement
1	Number of on-farm trials conducted (Number of technologies)	378 (62)
2	Frontline demonstrations conducted (Number)	9769
3	Farmers trained (Number)	44076
4	Extension personnel trained (Number)	2889
5	Participants in extension activities (Lakh)	1.56
6	Production of seeds (Quintals)	2379.31
7	Planting materials produced (Lakh)	16.73
8	Livestock strains and finger lings produced (Lakh)	21.97
9	Soil, water, plant and manures samples tested (Lakh)	0.045
10	Mobile agro-advisory provided to farmers (Lakh)	29.71

News from KVKs

'Mahila Kisan Diwas 2021' celebrated

Considering the multi-dimensional role of women in agriculture and allied sectors, the Ministry of



Agriculture and Farmers' Welfare had decided to observe October 15th every year as 'Rashtriya Mahila Kisan Diwas 2021'. The KVKs under ICAR-ATARI Kolkata celebrated 'Mahila Kisan Diwas' on 15.10.2021 at their respective districts. The scientists of KVKs



emphasized the importance of the day, role of women in agriculture, women empowerment through SHG formation, entrepreneurship



development and many others. On that occasion, women farmers

were provided with different skill development trainings to improve their scientific knowledge for agricultural production, nutritional security and livelihood



income. The successful women farmers were also felicitated with awards and recognitions by the KVKs to encourage other women farmers in the district. The summary of various programmes organized by the KVKs in Odisha and West Bengal has been given in the table.

State	No. of KVKs organized the programme	Seminars organized		Training programmes organized		Gosthis organized		Exhibitions organized		Total	
		No. of activities	No. of participants	No. of activities	No. of participants	No. of activities	No. of participants	No. of activities	No. of participants	No. of activities	No. of participants
Odisha	17	5	187	18	420	5	151	13	128	41	886
West Bengal	16	6	249	14	561	3	113	3	143	26	1052
Total	33	11	436	32	982	8	264	16	271	67	1938

‘World Food Day 2021’ observed

The ‘World Food Day 2021’ is observed to mark the anniversary of the founding of the Food and Agricultural Organisation (FAO) of the United Nations, every year on 16th October with the objectives at tackling global hunger and striving to eradicate hunger across the world. The theme for the year 2021 was ‘Our actions are our future. Better production, better

nutrition, better environment and a better life’. Forty three KVKs



of this Zone took part in the celebration on 16.10.2021. The vegetable crops planting materials distribution; training programmes on Nutri-garden and Nutri-thali, balanced diet preparation, food grain protection during storage, backyard poultry farming, production of food item through

organic farming etc. were among the various activities undertaken on the eve of food day celebration. The Farmers-Scientist interaction was also organized by the KVKs to solve the problems of farmers for food grain production. The state-/ UT-wise summary of different activities of KVKs under ICAR-ATARI Kolkata are given in the table.



State	No. of KVKs organized the programme	Seminars organized		Training programmes organized		Gosthis organized		Exhibitions organized		Total	
		No. of activities	No. of participants	No. of activities	No. of participants	No. of activities	No. of participants	No. of activities	No. of participants	No. of activities	No. of participants
A & N Island	03	0	0	01	34	02	44	0	0	03	78
Odisha	22	06	210	26	776	05	202	04	15	41	1106
West Bengal	18	07	281	11	506	03	150	03	140	24	1044
Total	43	13	491	38	1316	10	396	7	155	68	2228

‘National Milk Day 2021’ conducted

In India, every year 26th November is celebrated as ‘National Milk Day 2021’. The day is being observed since 2014 to commemorate the birth anniversary of the Father of India’s White Revolution,

farmers including women and school children focusing on the



sustainability of dairy sector, empowerment of women through dairying, Govt. schemes available for animal husbandry and dairying, inclusion of milk and dairy

product in daily diet as complete food, problems in consuming adulterated milk and other related issues on that occasion.

‘World Soil Day 2021’ celebrated

The ‘World Soil Day 2021’ programme was celebrated on 5th December, 2021 at all 59 KVKs under ICAR-ATARI Kolkata. On the occasion, farmers were made aware with the basic knowledge of soil, about deterioration of soil health and ways it could be restored for

Dr. Verghese Kurien, nicknamed as ‘Milkman of India’. Some of our KVKs viz. Bankura, Birbhum, Cuttack, Sonapur, S 24 Pgs (Nimpith) and others celebrated ‘National Milk Day 2021’ on 26.11.2021 at the KVK campuses. The scientists educated



optimizing agricultural production through using bio - fertilizer,



vermi-compost, FYM, Dhaincha, liquid manure, decomposer, humic acid, *Trichoderma viridae*, *Pseudomonas fluorescence*, Azolla etc. A total of 1021 soil health cards were also distributed among the farmers at the KVKs by the scientists and other senior officials in the respective districts.

The state-wise summary of the programme has been given below.



Name of State	No. of KVKs organized the programme	No of participants attended			
		Farmers	Scientists	Students	Total
A & N Islands	3	92	13	12	117
Odisha	33	1485	152	350	1987
West Bengal	23	1121	101	378	1600
Total	59	1698	266	740	3704

'Swachhta Programme 2021' organized

The KVKs of this Zone organized various Swachhta related activities at their respective districts during 2nd to 6th October, 2021 to celebrate 'Special Swachhta Campaign 2021'. A



total of 1593 persons comprising of 165 staff members, 51 dignitaries, 902 farmers, 117 civil society members and 358 school children had participation in the programme.

Not only that, 52 KVKs also organized 'Swachhta Hi Suraksha 2021' programme during 16th to 31st December, 2021 involving 50 VIPs and 705 farmers, staff and other participants.



Events

'Independence Day 2021' celebrated

The 'Independence Day 2021' was celebrated at ICAR-ATARI Kolkata on 15th August, 2021. All staff members of ATARI Kolkata assembled in front of the institute to celebrate the day with utmost fervour, zest and a



spirit of patriotism for marking the innumerable sacrifices of the freedomfighters of our country. The Director, Dr. S. K. Roy highlighted

the role of freedom fighters and discussed the importance of the day. He urged everybody to work for the development of the nation.

'Vigilance Awareness Week 2021' observed

The 'Vigilance Awareness Week 2021' was observed from 26th October to 1st November, 2021 at ICAR-ATARI Kolkata and KVKs under this Zone which was commenced



with an integrity pledge taken by all officials and staff on 26th October 2021 at 11 AM for upholding the highest standards of ethical conduct, honesty and integrity. This year the main focus was on 'Independent India @75: Self Reliance with Integrity'. The ICAR-ATARI Kolkata organized a talk on 'CCS Conduct Rules' which was delivered by Sh. Ashish Roy, Ex-Joint Director (Admn.) and Registrar, National Academy of Agricultural Research

Management, Rajendranagar, Hyderabad on 1st November 2021. To mark the occasion, various



programs like panel discussion, workshop, seminar, essay competition, quiz competition, debate competition and awareness campaigns were organized by KVKs under ICAR-ATARI Kolkata.

‘World Antimicrobial Awareness Week 2021’ organized

The ‘World Antimicrobial Awareness Week 2021’ was organized by the few KVKs of ICAR-ATARI Kolkata during 18th November to 24th November, 2021 with the aims to increase global awareness of antibiotic or anti-microbial resistance and to follow the best healthcare practices to prevent the emergence and spread of drug resistant infections. The theme for the year 2021 was ‘Spread Awareness, Stop Resistance’. The KVKs organized awareness programmes/ seminars/ lectures through online mode to make the farmers aware of judicious use of antibiotics/antimicrobials for livestock, fishery including crop production.

‘Parliamentary Standing Committee for Hindi’ visited ICAR-ATARI Kolkata

The ‘Parliamentary Standing Committee for Hindi’ led by Smt. Seema Chopra, Director, Official Language, ICAR, New Delhi and Sh. Manoj Kumar, Chief Technical Officer, Official Language, ICAR, New Delhi visited ICAR-ATARI Kolkata on 22nd November, 2021



to review the progress made regarding the use of Official language. The Committee visited different components of ICAR-ATARI Kolkata office and finally, met with the Director, scientists and other staff members at the conference hall. Dr. S. K. Roy, Director, ICAR-ATARI Kolkata welcomed the dignitaries and



narrated in details about the use of Hindi language by this institute for different official communications. Dr. Roy handed over books/ documents to the Committee

members which were published from this office in Hindi. The Committee interacted with all the staff members and suggested different ways to incorporate Hindi language in official activities. However, at the end of the day, the Committee was very satisfied with the activities of ICAR-ATARI Kolkata in using Hindi language in spite of this office comes under ‘Ga Kshetra’.

‘Constitution Day 2021’ observed

The ‘Constitution Day’ was observed at ICAR-ATARI Kolkata on 26th November, 2021. On the occasion, all staff members assembled at the conference hall of the institute for



a pledge taking ceremony under the leadership of Dr. S. K. Roy, Director, ICAR-ATARI Kolkata



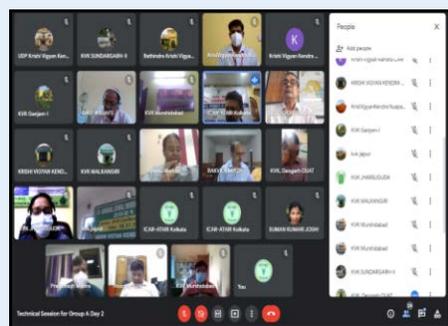
to commemorate the adoption of the Constitution of India. The day was also celebrated by the KVKs of this Zone.

Meetings/ workshops/ training programmes organized/ conducted

Online Annual Zonal Workshop for KVKs

The ICAR-ATARI Kolkata virtually organized ‘Annual Zonal Workshop 2021 for the KVKs of Zone V’ spread across the states of Odisha, West Bengal and Union Territory of A&N Islands w.e.f. 6th to 7th July, 2021. The meeting was chaired by Dr. A. K. Singh, DDG (AE), ICAR, New Delhi.

Five Vice-Chancellors of state



agricultural universities as well as Deemed University; Directors of concerned ICAR institutes; Directors of ICAR-ATARIs; Head of Host Organizations; Director/ Dean of Extension Education, SAUs; SSH of KVKs and all staff of ICAR-ATARI Kolkata including Director and five Principal Scientists attended the meeting. After a brief welcome address, Dr. S.K. Roy, Director, ICAR-ATARI

Kolkata presented an overview of salient achievements of the zone as well as involvement of ATARI Kolkata and 59 KVKs in various flagship programmes.



In his inaugural address, Dr. A. K. Singh emphasised on the incubation centre by KVKs which would lead to processing and value addition of agriculture product so that movement of processing and value addition could spread across the country. He stressed on sustainable/conservation agricultural practices by focussing on organic farming, mutual farming and zero budget agriculture. He proposed the KVKs to tap the potentiality of indigenous breeds of cattle and form a model of the same in 50 KVKs. The aspect of *Nutri-garden* required integration of more number of crops and at household level. Regarding *Nutri-thali*, he suggested to prepare recipe according to the crop available in the locality. All KVKs should maintain 4-5 demonstration models in their campus for more visibility to farmers. He also enlightened the house about the digital platform '*Kisan Sarthi*' which could connect with the farmers through two way communication. He told the house to prioritise the need of the districts to provide the required support to the farming community. He emphasised to address and identify the potential areas like production, value addition etc. by forming a group of KVKs according to the agro-ecological situations.

Dr. C. Guha, Vice-Chancellor, West Bengal University of Animal and Fishery Sciences, WB observed that KVKs were outreach arm of ICAR for growth

and development during pandemic situations to maintain good human health, agriculture and economics.

Dr. S. K. Chakraborty, Vice-Chancellor, Uttar Banga Krishi Viswa Vidyalaya, WB appreciated the work of KVKs for developing agri-entrepreneurs and adoption of conservation agriculture like zero tillage cultivation. He advised to have two KVKs in all districts for expanding the activities of KVK.

Dr. B. S. Mahapatra, Vice-Chancellor, Bidhan Chandra Krishi Viswavidyalaya, WB said that the KVKs were backbone of agriculture in the country. Dr. P.K. Agrawal, Vice-Chancellor, Odisha University of Agriculture and Technology, Bhubaneswar highlighted the roles being played by the KVKs in training 22000 farmers. He reiterated the need



of NPS/Pension, post-retirement benefits and providing jobs for the family members for the KVK personnel who lost their lives during the ongoing pandemic. Swami Atmapriyanandaji, Pro-VC, Ramkrishana Mission Vivekananda Educational and Research Institute, WB advocated for indigenous farming technologies with organic farming blended with chemicals.

There was a panel discussion chaired by Dr. R. Singh, ADG (AE), ICAR and Co-chaired by Dr. S.K. Roy along with participation of Dean and Directors of Extension Education of Host Organizations where various administrative issues were discussed. On the second half of first day and 2nd day of workshop, technical sessions were carried out for 59 KVKs highlighting the

achievements of KVKs during 2020 and action plan of 2021.

The concluding session was addressed by Dr. R. Singh. He stressed on documenting farmers' feedback, developing question banks, understanding different agro-ecological problems faced by the farmers along with their solutions, maintaining database, ODOP, diversification of horticulture, development of smart village, value chain and value addition. He reiterated on availability of quality seeds, planting materials and quality fish fingerlings to the farmers.

There was unveiling of one book on performance of climate resilient technologies and six technical bulletins in vernacular languages by the Hon'ble dignitaries.

Virtual Launching Programme of NABARD funded project

The NABARD funded project on '*Agroforestry and value chain management for doubling farmers' income in new alluvial region of West Bengal*' has been launched online on 27th July, 2021 in the gracious presence of Prof. B. S. Mahapatra, Hon'ble Vice-Chancellor, BCKV; Dr. S. K. Roy, Director, ICAR-ATARI Kolkata; Dr. S. S. Singh, DEE, RLBCAU, Jhansi; Mr. A.



Kumar, GM, NABARD; Prof. U. Thapa, DEE, BCKV; Prof. J. Tarafdar, DR, BCKV and other dignitaries along with the farmers of Purba Medinipur district. The project aimed at implementation of two kinds of three-tier systems fruit based agroforestry models viz. Model-1: fruit plants (mango/guava/ber) + forest plants (lambu/

kadamba/sonajhuri) + vegetables and Model-2: fruit plants (sapota/ jackfruit/aonal) + forest plants



(subabul / neam / gamhar / jam) + spices in Panskura Block of Purba Medinipur, West Bengal involving 300 farmers.

Online Second Annual Review Workshop of GKMS

The ICAR-ATARI Kolkata organized 'Second Annual Review Workshop of Gramin Krishi Mausam Sewa (GKMS) for 24 KVKs of Odisha and West Bengal' through videoconferencing on 30th July, 2021. Dr. S. K. Roy, Director, ICAR-ATARI Kolkata outlined the main objective of the



workshop. In his welcome address, Dr. F. H. Rahman, Pr. Scientist and Nodal Officer, GKMS, ICAR-ATARI Kolkata highlighted the year around activities and progress of the DAMU Unit of the KVKs and briefed about the salient achievements of the Scheme of this Zone. Dr. K. K. Singh, Head, India Meteorological Department, New Delhi emphasized on financial module and functionalities of ICAR, IMD linkage and timely submission of statement of expenditure



for timely release of funds. He praised the activities of DAMU and wished for better research and development to be undertaken under DAMU.

Dr. S. C. Bhan, IMD Pune, in his address, emphasized on weather abnormalities like cyclones, monsoon abnormalities and minimizing weather-based risk issues and developing resource inventories. He urged upon the state line departments, KVKs and linkage would enhance better dissemination of the agro-advisory. Dr. S. Bandyopadhyay, DDGM, RMC, Kolkata and Dr. K.K. Singh chaired the Technical Session where the Heads and SMSs of DAMU KVKs of West Bengal and Odisha presented their progress report of 2020-21. Drs. Kripan Ghosh, R. Bala, Asha Latwal from IMD Pune and Drs. P. Mishra, OUAT; P. K. Pal, UBKV; S. Banerjee, BCKV; H. R. Biswas, M. C. Bhubaneswar; A. Khuntia, OUAT and other officials from RMC Kolkata and IMD New Delhi attended and interacted in the workshop. Two technical bulletins i.e. GKMS Newsletters of January and July, 2021 were released during the occasion.

Online training programme on poultry and duck farming

A 5-day national level online programme on 'Advanced training on poultry and duck farming' was organized jointly by ICAR-Directorate of Poultry Research (DPR), Hyderabad and ICAR-ATARI Kolkata from 14th to 18th September, 2021. A total of 60 progressive farmers from 12 districts of West Bengal and 7 districts of Odisha and 2 districts of Andaman and Nicobar Islands



including 12 SMSs of different KVKs participated in that training program. More than 300 farmers



attended the training program through Facebook live streaming and live telecast at Coochbehar, Murshidabad and Birbhum KVKs.

Online IMC meeting

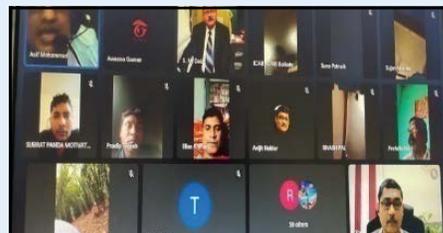
The Fourteenth Institute Management Committee (IMC) Meeting was conducted on 8th October, 2021 at ICAR-ATARI Kolkata. The meeting started with formal welcome by Dr. F. H. Rahman, Pr. Scientist-cum-Member Secretary of IMC. Dr. S. K. Roy, Director, ICAR-ATARI Kolkata shared some of the salient achievements of ICAR-ATARI Kolkata during recent times.



The IMC members discussed the agenda items in details and approved by following necessary codal formalities.

Online training programme on scientific dairy farming

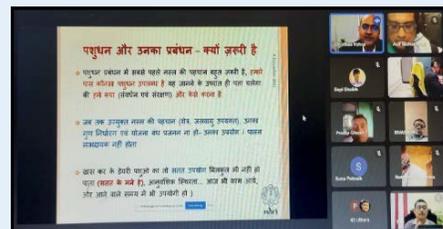
Another five-day training on 'Scientific dairy farming for sustainable economic security' was organized jointly by Dr. A. Halder, Pr. Scientist-cum-Course Coordinator, ICAR - ATARI



Kolkata and Dr. A. Mohammad, Sr. Scientist -cum-Course Coordinator, ICAR - NDRI, ERS, Kalyani from 6th to 10th December, 2021. A total of 74 farm men and women from Odisha and West Bengal



including 11 SMSs participated in that programme through virtual platform. In the inaugural programme, Dr. S. K. Roy, Director, ICAR-ATARI Kolkata highlighted on the importance of dairy farming for doubling farmers' income in Eastern India. Dr. S. M. Deb, Head, ICAR-NDRI, ERS, Kalyani addressed on white revolution and emphasized on augmentation of milk production in Eastern India in particular. A



number of scientists from ICAR-NDRI Karnal as well as Kalyani and ICAR-IVRI Kolkata were involved as resource persons in that training programme.

Meetings/workshops/symposia etc. attended by scientists/staff

Sl. No.	Name of the programme(s)	No. of scientist(s)/ staff attended
1	Online 'Annual Zonal Workshop 2021 for KVKs under Zone V' through zoom videoconferencing organized by ICAR-ATARI Kolkata	10
2	Online meeting as PI/ Co-PI of various Network Projects and Institute Projects approved by RAC organized by different ATARIs	6
3	Meeting with Dr. P. Das, Former DDG (AE) and Chairman, RAC, ICAR, New Delhi	6
4	Selection committee meeting for selecting manpower at ICAR-ATARI Kolkata and different KVKs	9
5	Meeting for scrutinizing application for various post of ICAR-ATARI Kolkata and KVKs at ATARI Kolkata	6
6	Online and offline Scientific Advisory Committee (SAC) meeting of different KVKs	6
7	The DPC meeting for various posts of ICAR-ATARI Kolkata	8
8	Online farmers' awareness programme on 'Antibiotic Resistance' to celebrate 'WorldAntimicrobial Awareness Week 2021' through audio mode organized by KVK Birbhum, WB	1
9	Live telecasting of Hon'ble Prime Minister's interaction programme with farmers and scientists on 'Climate resilient varieties, technologies and practices' organized by ICAR-NRRI, Cuttack	4
10	Online interaction meeting with Secretary, DARE and DG, ICAR organized by the council	6
11	Meeting with 'Parliamentary Standing Committee for Hindi' at ICAR-ATARI Kolkata	14
12	Online meeting of DG/DDG/ Director, ICAR-NDRI, Karnal on the eve of 'National Milk Day 2021' organized by ICAR-NDRI, Karnal	4
13	Live telecast of Hon'ble PM's address on 'Zero budget natural farming' at Anand, Gujarat organized by Govt. of Gujarat	6
14	Online meeting of KRISHI Portal organized by ICAR-IASRI, New Delhi	1
15	Online 21 days national training programme on 'Entrepreneurship strategies in agriculture, horticulture, animal husbandry and allied sectors for economic development of India' organized by DEE, UBKV, Coochbehar, WB and Agro Environmental Development Society, Rampur, UP	2
16	Inaugural ceremony of ICAR-ATARI Patna administrative building at Patna organized by ICAR-ATARI Patna	3
17	Online meeting 'Mera Gaon Mera Gaurav' for ICAR institutes and SAUs of eastern zone (A & N Islands, Odisha and West Bengal) organized by ICAR-ATARI Kolkata	2
18	Meeting with Director and other staff of ICAR-ATARI Kolkata on various issues	6
19	Superannuation programme of Dr. S. S. Singh, Former Director, ICAR-ATARI Kolkata organized at ICAR-ATARI Kolkata	20
20	Meeting with the Director and WB state govt officials for the project 'Umami'	2
21	Online annual review workshop of 'Gramin Krishi Mausam Sewa (GKMS)' for the KVKs of this zone organized by ICAR-ATARI Kolkata	3
22	Online zonal workshop for KVKs under Zone IX and organized by concerned ATARI	1
23	Directors conference of Indian Council of Agricultural Research (ICAR)	1
24	Webinar on 'Kisan Sarathi' organized by Division of ICT, Govt. of India	1
25	Online Foundation Day and Award Ceremony of the ICAR	2
26	Launching programme of 'Agro forestry and value chain management for doubling farmers' income in new alluvial region of West Bengal' project funded by NABARD, Kolkata organized by ICAR-ATARI Kolkata and Purba Medinipur KVK	2

Sl. No.	Name of the programme(s)	No. of scientist(s)/ staff attended
27	Meeting on DESAI programme organized at KVK Birbhum	1
28	Online IMC meeting of ICAR-ATARI Barapani organized by ICAR-ATARI Barapani	1
29	Virtual meeting with ATARI and KVKs for developing a collaborative framework for cattle improvement under SCSP/ TSP	1
30	Online meeting with ATARIs on 'Development of collaborative framework for cattle improvement under SCSP/ TSP'	1
31	Divisional meeting with DDG (AE), ICAR, New Delhi and Director, ATARIs on EFC, budget utilization, DFI and other issues organized by Agril. Ext. Division, New Delhi	3
32	Online inaugural ceremony of ICAR-ATARI Guwahati administrative building at Guwahati organized by ATARI Guwahati	1
33	Online training programme on 'Scientific dairy farming for sustainable economic security' organized by ICAR- ATARI Kolkata and ICAR- NDRI, ERS, Kalyani	1
34	Online training programme on 'Livestock: A game changer in agricultural farming practices' organized by DEE, UBKV, Coochbehar, WB and Agro Environmental Development Society, Rampur	1
35	Webinar on CCS Conduct Rules delivered by Mr. A. Roy, Former Joint Director, NAARM, Hyderabad to observe 'Vigilance Awareness Week 2021' organized by ICAR- ATARI, Kolkata	2
36	Online meeting on FPO formation organized by National Cooperative Development Corporation (NCDC), New Delhi	2
37	Online 5 days advanced training on 'Poultry and duck farming' organized by ICAR- ATARI Kolkata and ICAR- Directorate of Poultry Research, Hyderabad	1
38	Virtual meeting pertaining to review of mechanisms to ensure probity among government servants organized by Agricultural Extension Division, ICAR, New Delhi	2
39	National Webinar on 'Integrated Farming System for sustainable livelihood and nutritional security' ICAR- Indian Institute of Farming Systems Research Modipuram, Meerut	2
40	Other meetings/workshop/ seminars as committee member(s) on various issues	10

Distinguished visitors

- Dr. P. Das, Former DDG (AE) and Chairman, RAC, ICAR, New Delhi
- Smt. Seema Chopra, Director, Official Language, ICAR, New Delhi
- Sh. Manoj Kumar, Chief Technical Officer, Official Language, ICAR, New Delhi

Publications

Research articles

Dey Gupta M, Mondal S K, Basu D, Pan S and Mitra K. 2021. Empowering rural women through backyard poultry farming: Adoption of Haringhata Black in tribal district of West Bengal. *Indian Journal of Animal Sciences*, **91**(12): 1118-1121.

Mondal S K, Das K S, Roy S K and Rajkhowa C. 2021. Physical characteristics and chemical composition of Mithun (*Bos frontalis*) carcass. *Journal of Veterinary and Animal Science* (Revision submitted).

Mondal S K, Pal D T, Das K S and Roy S K. 2021. Nutrient composition of preserved fodder grasses of Nagaland used for feeding of Mithun (*Bos*

frontalis). *Indian Agriculturist* (In press).

Udgata J, Pal P P, Mishra P, Sahoo H K, Dutta S, Ghosh S and Roy S K. An assessment of knowledge gap in ginger cultivation at Jharsuguda district of Odisha. *Indian Agriculturist* (Accepted).

Technical bulletins

Das K S, Mondal S K, Murmu S, Roy S K, Pal P P, Haldar A and Rahman F H. 2020. ATARI Kolkata News. Published by the Director, ICAR-ATARI Kolkata, **4**(1): 1-12.

Das K S, Mondal S K, Murmu S, Roy S K, Pal P P, Haldar A and Rahman F H. 2020. ATARI Kolkata News. Published by the Director, ICAR-ATARI Kolkata, **4**(2): 1-12.

Das K S, Mondal S K, Murmu S, Roy S K, Pal P P, Haldar A and Rahman F H. 2021. ATARI Kolkata News. Published by the Director, ICAR-ATARI Kolkata, **5**(1): 1-12.

Rahman F H, Nandi S and Bhattacharya R. 2021. GKMS Newsletter. Published by the Director, ICAR-ATARI Kolkata, **2**(1): 1- 8.

Roy S K, Pal P P, Das K S, Rahman F H, Haldar A and Mondal S K. 2020. ICAR-ATARI Kolkata Annual Report 2020. Published by the Director, ATARI Kolkata, pp: 1-116.

Invited lectures

Das K S. 2021. Delivered lecture on 'Antibiotic resistance' in farmers' awareness programme to celebrate

‘World Antimicrobial Awareness Week 2021’ through audio mode held on 24th November, 2021 organized by Birbhum KVK, WB.

Haldar A. 2021. Delivered lecture on ‘Integrated Farming System in West Bengal: Case studies, opportunities and challenges’ in a virtual meeting on ‘Promoting integrated farming in West Bengal-Challenges and strategies’ held on 14th July, 2021 organized by NABARD, Kolkata.

Haldar A. 2021. Delivered online lecture on ‘Portable meat production and retailing

facility (P-Mart)- A novel technology for hygienic meat production from sheep and goats’ held on 24th September, 2021 organized by ICAR-NRC Meat, Hyderabad.

Haldar A. 2021. Delivered online lecture on ‘Livestock: A game changer in agricultural farming practices’ in 21 days national training course held on 17th December, 2021 organized by DEE, UBKV, Coochbehar, WB and Agro Environmental Development Society, Rampur, UP.

Pal P P. 2021. Delivered online lecture on ‘Farm

entrepreneurship: A way forward’ in 21 days national training course held on 8th December, 2021 organized by DEE, UBKV, Coochbehar, WB and Agro Environmental Development Society, Rampur, UP.

News items

§ Two days webinar on ‘Annual Zonal Workshop for KVKs under Zone V’ for ICAR, KVK Portal and ICAR-ATARI Kolkata website.

§ Online ‘Second Annual Review Workshop of GKMS of Zone V’ for ICAR and ICAR-ATARI Kolkata website.

Awards/recognitions



Dr. P. P. Pal, Pr. Scientist of this Institute has been awarded with

‘ISEE Fellow Award 2021’ in ISEE National Seminar 2021 for his significant contribution in the field of Agricultural Extension held at Banaras Hindu University (BHU), Varanasi during 4th to 6th October, 2021.

Dr. K. S. Das, Pr. Scientist of

this Institute has been conferred with ‘Reviewer Excellence Award’ by Agricultural Research Communication Centre, Karnal, Haryana on 14th July, 2021 for recognition of his significant and outstanding contribution as reviewer of ‘Indian Journal of Animal Research’ journal.

Personalia

Superannuation

Dr. Sati Sankar Singh, Former Director, ICAR-ATARI Kolkata has superannuated from his ICAR service on 31.12.2021 (afternoon).



Joining

Dr. Suren Murmu has joined as SRF of FFP at ICAR-ATARI Kolkata on 10.09.2021 (forenoon).

Mrs. Bani Ghosh has joined this Institute as SRF, CFLD on Oilseeds on 27.12.2021 (morning).

Relieving

Dr. Subhramalya Dutta, SRF of ARYA project has been relieved from this Institute on 31.12.2021 (afternoon).

Promotion

Sh. Somnath Mukherjee has joined as AF&AO at ICAR-ATARI Kolkata on 07.10.2021 (forenoon).

Sh. Ramachandra Pradhan has joined as AAO at ICAR-ATARI Kolkata on 16.10.2021 (forenoon).

Mrs. Sulekha Pal, Private Secretary of Director, ICAR-ATARI Kolkata has been placed to 3rd MACP (financial upgradation).

A PDF version of the Newsletter is also available at: <http://www.atarikolkata.org/publications>



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