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News



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Director, ICAR-Central Institute of
Post-Harvest Engineering and
Technology
P.O. PAU Ludhiana-141004 (Punjab)
0161-23131103, 2313116
Fax: 0161-2308670
www.ciphnet.in
director.ciphnet@icar.gov.in,
tot.ciphnet@gmail.com

Editor in-Chief

Dr. Nachiket Kotwaliwale, Director

Editors

Dr. Sandeep Mann, Pr. Scientist & I/c
PME
Dr. Armaan U. Muzaddadi, Pr. Scientist
Dr. Khwairakpam Bembem, Scientist
Dr. Renu Balakrishnan, Scientist

Assisted By:

Ms. Pragya Singh T.A
Er. Sewak Singh YP-I

DIRECTOR SPEAKS



Energy is the major input in various activities of food production, handling, processing, distribution etc. One of such major energy demanding sectors is the food processing industries. Since processing of food is imperative before consumption, more so in case of food grains that requires to convert the raw material to the final edible form, food processing remains one of most important industries in India. Management of energy in food grain processing industries as an innovative approach includes the use of energy efficient appliances/ machineries, improving the efficiency of the machineries for different unit operations and shifting of the conventional energy sources to the renewable energy sources. Due to growth in energy demand

and depletion of conventional energy sources, there is rise in social concerns and hence various environmental policies have been made and adopted across the globe. In order to bring a sustainable development, precise use of energy is required in all sectors for which food processing industries are not an exception.

The difficult times posed due to COVID-19 pandemic have taught many survival lessons and also brought about some new opportunities for technology development and its use. The information technology has become a strong tool for decision making, knowledge dissemination and trade. The technology transfer process has been eased to a great extent because now the reach has extended to a very large extent. Many meetings, seminars, training programmes were conducted during this reporting period and grandest among them was Industry Interface Virtual Fair on Agro-Processing – 2021 (CIPHET-IIFA 2021) during 3-4, October, 2021. This virtual interface meeting with the agro processing industry and related stakeholders was held on the occasion of Institute's 33rd foundation day and also to commemorate 'Azadi Ka Amrit Mahotsav' – 75 years of India's Independence.

Team-CIPHET is proud to present its new technologies namely Popped Makhana Grading Machine, modified Live Fish Carrier System, protocol for storage of whole pulses, packaging material for dry fishes. Scientists working in various other institutes and universities and who are associated with ICAR-CIPHET through All India Coordinated Research Projects have also made significant contributions on technology development front. To mention a few of them are Dehumidified Dryer for Tamarind, Color Sorter for Spherical Fruits, Cocoa Butter Extraction Method while a modern jaggery plant was commissioned at Ankapalle under the AICRP on PHET. Scientists working in AICRP (PEASEM) developed useful structures for cultivation of cauliflower in rainy seasons, animal shelter and solar radiation shields of temperature and RH sensors.

Knowledge related to post-harvest processing for loss prevention and value-addition has been disseminated through publications, training programmes, demonstrations, lectures and seminars through physical as well as virtual platforms. Twenty-three publications in the form of research papers and articles have been brought out. Many training programmes for students, farmers, entrepreneurs etc. were conducted and two prominent among them were conducted for the beneficiaries of Punjab and Bihar, respectively under SCSP scheme. Krishi Vigyan Kendra (KVK) at the Abohar campus plays a vital linkage between farmers and institute. The KVK conducted a series of activities including celebration of Mahila Kisan Diwas and World Soil Day and also organized trainings, campaigns, demonstrations and OFTs. A meeting of Scientific Advisory Committee of the KVK was also held to decide its plans for 2022. Scientists of the institute participated in national conferences of professional bodies namely Agricultural Science Congress, Annual Convention of Indian Society of Agricultural Engineers. The professional competence of the scientists of institute is being recognized through grant of consultancy projects in the modern technological areas. Better opportunities and greater success are expected as the calendar turns to a new year.

Wishing all readers, a very happy and prosperous year 2022.

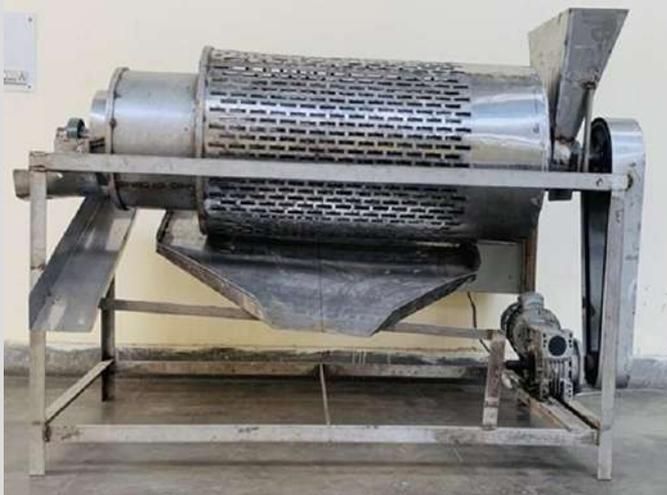
(Nachiket Kotwaliwale)
Director

RESEARCH HIGHLIGHTS

Development of Popped Makhana Grading Machine

- RK Vishwakarma, Mridula D, Ranjit S, Kh. Bembem

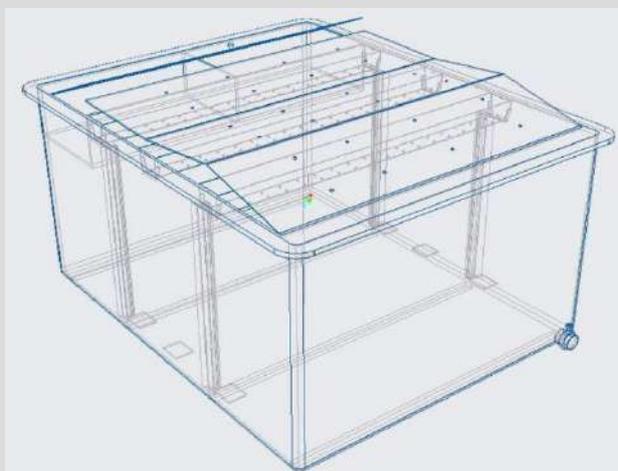
A simple and compact grading machine was developed for grading of popped makhana in different sizes (12-15 mm, 15-19 mm and >19 mm diameters) and separate flattened makhana. The grader consists of 3 concentric perforated cylinders of 1000 mm length made from SS304. A conical feeding trough is placed with the inner cylinder. All the cylinders are joined together so as to operate at same speed. The inner cylinder is mounted on a hollow shaft, which is rotated by belt pulley arrangement. The cylinder assembly is controlled through VFD drive. Outlets for each grade of popped makhana are placed to collect the graded makhana. The grader separates flattened and unpopped makhana near the feeding end. This machine is operated by 1 hp electric motor and 2 unskilled persons are required to operate the machine. Capacity of the machine is 200 kg popped makhana per hour. Tentative Cost of the machine is Rs. 1.5 lakh.



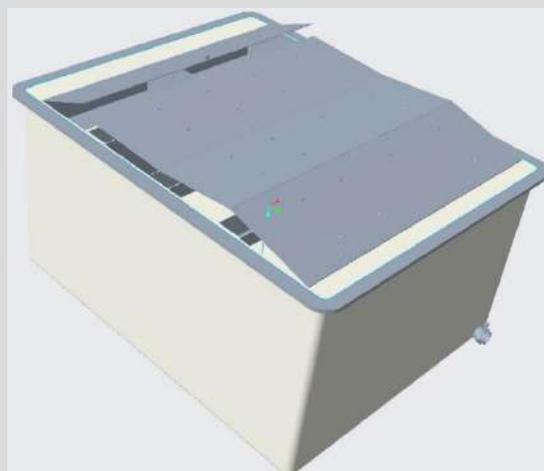
Modification of Live Fish Carrier System

-Armaan U. Muzaddadi

Live Fish Carrier System was re-designed for increasing its capacity and also to cover long distance trips. The container was provided with a Multipurpose Chamber and the instruments for supporting aquatic lives were added to the container itself. Two pumps for water showering, one more filtration device, high-capacity air-pump aerators, exhaust fan and water chiller were added. The modified System is able to carry 200-300 kg live fish for a journey time of 3-5 days. The system is now based on mini trucks instead of E-rickshaw which was developed earlier with a capacity of 100 kg and journey time 4-6 hours.



Modified Live Fish Carrier System for mini-truck (design)



Modified Live Fish Carrier System for mini-truck (perspective view)



Live Fish Carrier System (mini truck based)

Standard protocol for storage of whole pulses in warehouses, milling of major pulses and milling outturn (OTR)

- RK Vishwakarma, Mridula D, DN Yadav, Navnath IS & Deepika Goswami

ICAR-CIPHET along with other co-operating centres conducted a study on Standard Operating Procedures for procurement, storage, milling, and OTR under the DoCA funded Project on 'Development of Protocols for Shelf Life, Safe Storage, Milling Outturn and Indicative Norms for Procurement of Major Pulses'. On the basis of the study, standard protocol for storage of whole pulses as well as *dal* (chick pea, pigeon pea, black gram, green gram and lentil) in warehouses is recommended. The parameters considered for this protocol are stacking height, frequency of sampling method, storage environmental conditions, dunnage, grain moisture, insect management practices and other general consideration. Standard operating procedure for milling of major pulses and uniform milling outturn (OTR) of *dal* for studied five major pulses have also been recommended.

Study of suitable packaging materials for dry fish packaging

-Armaan U. Muzaddadi, Sandeep Mann, Kh. Bembem, Guru PN & B. Kakati

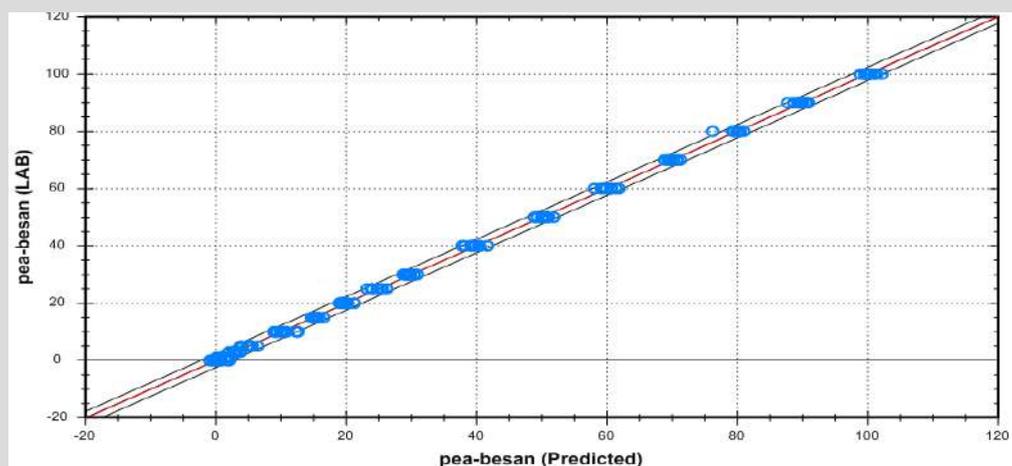
Packaging of dry fish has been a problem due to several reasons including puncturing by sharp spines, hygroscopic nature of dry fish and evaporation of its volatile components. To find an appropriate packaging 300 gsm HPDE, Aluminium laminated HDPE (3-ply) and LDPE were used in different form of packages including pillow pouch, tray and stand pouch. Dry fishes were stored in these packages and quality was assessed through sensory evaluation (9-point Hedonic scale) at monthly intervals. Dry fishes stored in Aluminium laminated HDPE pillow pouch and HDPE trays were acceptable for cooking even after 8 months of storage.



Dry Fishes stored in different packaging materials

Near Infra-Red spectroscopy-based method for detection of pea flour adulteration in chick pea flour (*besan*) - Manju Bala & Swati Sethi

Chick pea flour or *besan* is important constituent of many Indian dishes. *Besan* is always in higher demand in the Indian market and comparatively costlier than other flour. Due to this, it is often adulterated with lesser expensive pea flour by the unscrupulous traders to achieve higher economic gains. Addition of pea flour, although provides protein of similar level but for some persons these proteins may be allergic and hence can cause health problems and also results in the poor quality of the final product. Further, the presence of pea flour cannot be identified by chemical methods and only microscopic method is available, which is cumbersome and requires technical expertise. In order to provide easy, fast and non-destructive method for detection of pea flour adulteration in *besan*, near infra red spectroscopy (NIRS) model has been developed. Pea flour and *besan* samples are prepared in the laboratory and this spiked samples of *besan* with pea flour (1-90%, w/w) are prepared. Spectra of pure *besan*, pure pea flour and spiked samples of *besan* with pea flour have been acquired as the logarithm of reciprocal of reflectance ($\log 1/R$) in the Visible-NIR wavelength range of 400 to 2,500 nm. Modified partial least square regression (MPLSR) method has been developed for quantification of pea flour in *besan*. The developed model for quantification of pea flour in *besan* showed coefficient of determination (RSQ) of 0.99, standard error of calibration (SEC) of 0.827 and standard error of cross validation (SECV) of 1.491. The developed method was cross as well as test validated. The cross validation and test validation of statistical data revealed standard error of prediction (SEP) as 0.941 and 1.89, respectively. The statistical results showed that developed model can be used to predict adulteration of *besan* with pea flour.



NIRS Plot of Predicted and Laboratory values of adulterated besan samples

Biology of *Rhyzopertha dominica* (Fabricius) on roasted Makhana (*Euryale ferox*) seeds under storage -Guru PN, Mridula D, RK Vishwakarma

The present study was conducted to evaluate the extent of damage done by an internal stored grain insect (lesser grain borer), *Rhyzopertha dominica* (Coleoptera: Bostrichidae) on roasted makhana seeds of three standard size grades i.e., 7 mm, 9 mm and 11 mm. It was recorded that insects preferred to feed on 11 mm size seeds, followed by 9 mm and 7 mm, respectively. Both grub and adult stages were able to cause substantial damage. The adult laid the eggs on the seeds by entering inside the kernels through the apical natural opening. The average temperature and relative humidity for *R. dominica* development was maintained as $32.5 \pm 1^\circ\text{C}$ and $70 \pm 5\%$, respectively. It took 35-50 days for completing its life cycle, which included four stages: egg, larva, pupa, and adult. Females laid about 200-500 eggs in their lifetime, singly. Incubation period lasted for 5 ± 0.3 – 9 ± 0.4 days, while larval and pupal period took 30 ± 5 and 8 ± 2 days, respectively. Mean longevity of adult male and female *R. dominica* was 26 and 17 weeks, respectively. The damage

potential was assessed using the artificial infestation (purposive samples) with different numbers of tested insect. The study indicated that significant loss of roasted makhana seeds during 15 days of storage with $40 \pm 1.24\%$ losses, caused by 10 adults per 100g seeds. The total quantitative losses, observed during 6 months storage period was $64 \pm 1.16\%$ in the samples with 10 adults per 100g of roasted makhana seeds



Entry holes

Internal makhana feeding



Lesser grain borer (adult and grub)



Morphometry of adult Rhyzopertha

Morphometry of Grub



Entry bore hole size

Feeding path

AICRP on PHET

Dehumidified dryer for drying sticky tamarind fruits, Centre TNAU Coimbatore

The fabrication of dehumidified dryer for drying sticky tamarind fruits is completed at AICRP on PHET centre TNAU, Coimbatore. The drying chamber consist of 10 trays having dimensions of 74 x 67.5 cm with 8mm diameter of hole to dry the tamarind fruit. The unit is connected to dry-air dehumidifier for drying of tamarind fruit.



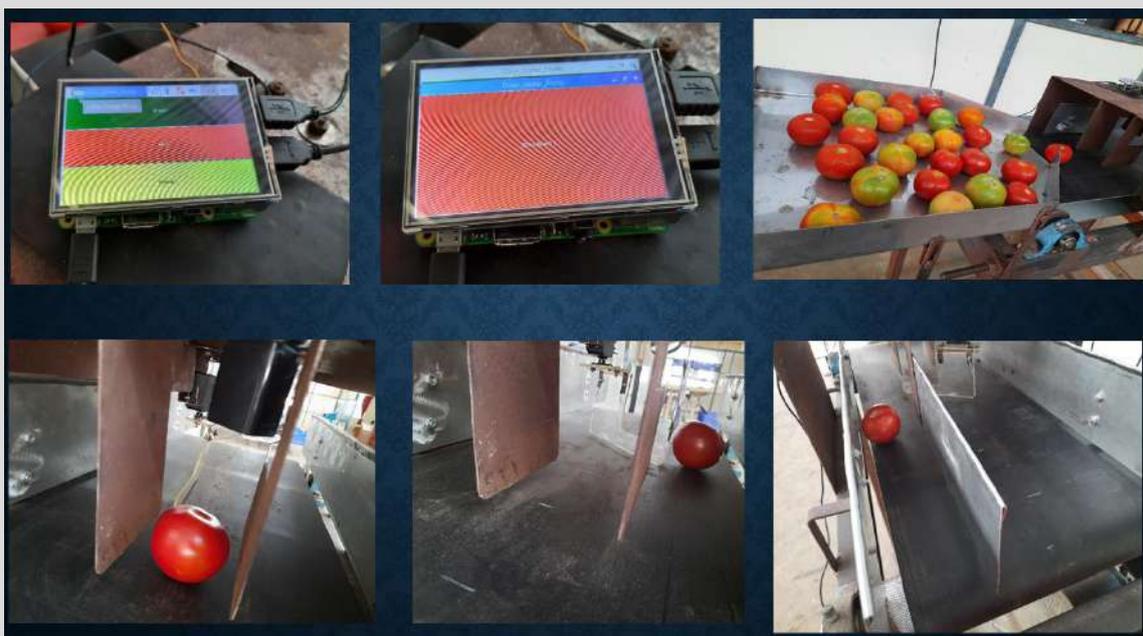
Drying chamber (front view)



Tray

Color sorter cum grader for spherical fruits developed at TNAU centre, Combaitore

Images captured in Webcam sent to Raspberry pi where the images are processed using Open CV into various colour space. Raspberry Pi then send a Pulse width modulation (PWM) signal to the servo motor and it rotates at 90° to divert the tomato-based colour into the respective channel.



Colour sorting steps for ripe tomatoes



Colour sorting steps for unripe tomatoes

Universal Testing Machine (UTM) operated cocoa butter extractor is developed at centre Tavanur

Well ground cocoa mass stored at refrigerated condition was double boiled to a temperature of 42°C to melt it into a semi liquid form. 2 kg of cocoa mass was poured into the filter press bag and the bag was tied up. Filter press bag was kept in the cylinder and the piston was set up above the filter cloth. Filter bag along with the cylinder was then placed on the collecting plate. This attachment was mounted to the loading section of the UTM and switch on the machine. By adjusting the load indicator, force was made to desired value (kN) in the dial gauge. To apply the load on the piston, the valve in the control panel was opened and start button was pressed. The pressure exerted by the UTM on the piston compressed the filter bag containing cocoa mass. Thus, the movable middle cross head descends along the screw column and compressed the piston to extract the cocoa butter. The extracted cocoa butter was then collected in collecting plate placed below the cylinder and taken out through the outlet. Performance evaluation of the machine is being conducted in terms of effect of compression forces on extraction efficiency, yield of cocoa butter and time of butter extraction.



Universal testing machine

Modern Jaggery Plant

Anakapalle centre of AICRP on PHET has developed a modern jaggery plant for the production of about 1.5 tonne liquid jaggery/1 tonne solid jaggery/800 kg granular jaggery per day. The plant is fitted with a multi jet condenser for the removal of condensate to maintain vacuum level. A scrapped surface heat exchanger, granulator and sieve are also installed in the plant for continuous production of granular jaggery. All the components of the plant are made of food grade stainless steel. The plant can be used for the complete processing from cane juice extraction to the production of solid or granular jaggery. This is complete automatic plant and no human touch is required after juice extraction till final production of jaggery.



Components of modern jaggery plant

AICRP on PEASEM

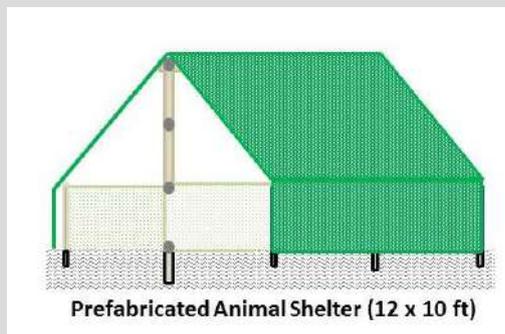
Effect of different structures and mulching on cauliflower cultivation during rainy season

JAU, Junagadh conducted an experiment on the effect of different structures and mulching on cauliflower cultivation during raining season. Covering of low tunnel by different types of covering was completed. Farm practices are being carried out for the crops. Maximum mean temperature (36.2°C) was recorded in plastic film covered low tunnel and minimum mean temperature was found in white shade net covered low tunnel (30.8°C). Maximum relative humidity was observed in plastic low tunnel (96%). Maximum mean light intensity was recorded in control (49498 lux) followed by plastic film covered low tunnel. Plant growth parameters viz. plant stand, plant height, number of leaves/plants, plant canopy will be recorded at the time of harvest. Thrips and larva were found in Polycum net house and walk-in tunnel structure. There was aggressive attack of pest and larva in open field and shade net house covered with low tunnel.

Fabrication of Animal Shelter

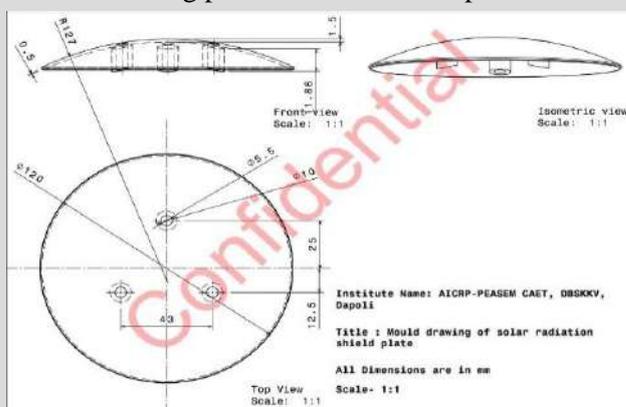
ICAR-NRCY, Dirang fabricated a make-shift portable animal shelter (10 x 12 ft) with plastic material (40mm & 25mm CPVC pipes, nylon ropes, 50% shade net, HDPE Tarpaulin) and GI material (50mm

& 20mm pipes, 8mm & 6mm rods, 8 x 50mm nut bolts) involving a total cost of Rs. 15000/- and life of approximately 5 years. These types of prefabricated tents will be very useful for the nomadic livestock farmers for protecting their young and milk animals from predators and environmental stress.



Solar radiation Shield for Temperature and RH Sensors

Dapoli Centre has developed agriculture operations that use an automated technology can improve crop productivity while cutting on labor costs. In case of agricultural facilities, cost of sensors used in the control systems are too high, which limits use of optimum number of sensors and also increase the overall price of the system. For example, cost of radiation shield used for temperature and RH sensors in automation systems is in the range of INR 7000 to 10,000. On this background, the AICRP-PEASEM, DBSKKV, Dapoli Centre has developed a low-cost solar radiation shield systems for temperature and relative humidity sensor to make agriculture facilities more efficient, such as greenhouses, animal buildings, storage facilities, open field operations, etc. The solar radiation shield system will be used for any kind of outdoor / agricultural uses and any agricultural automation system where temperature and RH sensors are used. The total production cost of a solar radiation shield system is Rs. 576/- and approximate selling price will be Rs 1000 per unit.



low cost solar radiation shield system

PUBLICATIONS

Research Papers:

- Kumar Y, Basu S, Goswami D, Mridula D, Shivhare US and Vishwakarma RK (2021). Anti-nutritional compounds in pulses: *Implications and alleviation methods*. *Legume Science* (Wiley), e111; DOI:10.1002/leg3.111
- Rani H, Sharma S and Bala M (2021). Technologies for extraction of oil from oilseeds and other plant sources in retrospect and prospects: A review. *Journal of Food Process Engineering*, e13851. DOI:10.1111/jfpe.13851.
- Yewle, N, Swain, KC, Mann S and Guru PN, 2021. Performance of hermetic bags in green gram [*Vigna radiata* (L.) R. Wilczek] storage for managing pulse beetle (*Callosobruchus chinensis*). *Journal of Stored Products Research*. DOI:10.1016/j.jspr.2021.101896

Popular article

Bhat S., Gupta J, Paschapur AU and Guru PN (2021). Eco-friendly strategies for insect-pest management in commercial vegetable production system in Uttarakhand, Himalayas. *Just Agriculture – Multidisciplinary e-newsletter*, Vol. 2 Issue-2, Oct 2021.

Paper in Conference Proceedings

- Mridula D, Arora S, Sonmati RK, Bala M, Goswami D, and Vishwakarma RK (2021). Extraction of bioactive compounds from immature kinnow fruits. In: Summary and Abstract (Souvenir) of XV Agricultural Science Congress, on Energy and Agriculture: Challenges in 21st Century, Organized by NAAS & BHU, Varanasi (U.P.), India during 13-16 Nov, 2021; p 792.
- Guru PN, Mridula D and Vishwakarma RK (2021). Infestation of *Rhyzopertha dominica* (Fabricius) in storage of roasted makhana (*Euryale ferox*) seeds. In: Summary and Abstract (Souvenir) of XV Agricultural Science Congress, on Energy and Agriculture: Challenges in 21st Century, Organized by NAAS & BHU, Varanasi (U.P.), India during 13-16 Nov, 2021; p 392.
- Sharma Kalyani, Patel S, Jha SN Mridula D, and Vishwakarma RK (2021). Mechanized system for primary roasting of raw makhana seeds and roasting process. In: Summary and Abstract (Souvenir) of XV Agricultural Science Congress, on Energy and Agriculture: Challenges in 21st Century, Organized by NAAS & BHU, Varanasi (U.P.), India during 13-16 Nov, 2021; p 342.
- Bala Manju, Sethi S, Sharma S, Mridula D and Kaur G (2021). Development of Method for Detection of Khesari (*Lathyrus sativus* L.) Flour Adulteration in Besan Using Near Infra-Red Spectroscopy. In: Summary and Abstract (Souvenir) of XV Agricultural Science Congress, on Energy and Agriculture: Challenges in 21st Century, Organized by NAAS & BHU, Varanasi (U.P.), India during 13-16 Nov, 2021; p 389.
- Goswami Deepika, Mridula D and Manju Bala (2021). Extraction optimization of phenolic compounds from pigeon pea by-products. In: Technical Compendium of 55th Annual Convention of ISAE on 'Challenges and Technological Solutions for Ensuring Food, Water and Energy Security & International symposium on 'Emerging trends in Agricultural Engineering Education, Research and Extension' held during 23-25 Nov, 2021 at RPCAU, Patna, Bihar; Abstract No. PDFE/ACP/008, pp 48.
- Renu Balakrishnan, Sandeep Mann Arvind Kumar, Rajeev Sharma and Mandeep Singh (2021). Extension Model for Promoting Agricultural Processing among Farmers. In: Technical Compendium of 55th Annual Convention of ISAE on 'Challenges and Technological Solutions for Ensuring Food, Water and Energy Security & International symposium on 'Emerging trends in Agricultural Engineering Education, Research and Extension' held during 23-25 Nov, 2021 at RPCAU, Patna, Bihar; Abstract No. PDFE/ET/022, pp 147.

Other

1. Muzaddadi AU & Vikas Kumar (2021). Design and Development of Fish Dressing and Waste Collection system (FDACS) for keeping better hygiene in fish retail markets, In: Technical Compendium of ISAE-2021 Convention (55th) on Challenges and technological solutions for ensuring food, water and energy security & International Symposium on Emerging trends in Agricultural Engineering Education, Research and Extension, 23-25 Nov, 2021, at Patna (Bihar), Indian Society of Agricultural Engineers, New Delhi p.112
2. Vikas Kumar & Muzaddadi AU (2021). Enzymatic extraction of anti-hypertensive peptide from fish byproducts, In: Technical Compendium of ISAE-2021 Convention (55th) on Challenges and technological solutions for ensuring food, water and energy security & International Symposium on Emerging trends in Agricultural Engineering Education, Research and Extension, 23-25 Nov, 2021 at Patna (Bihar), Indian Society of Agricultural Engineers, New Delhi p.113
3. Kumar Vikas, Muzaddadi AU, Thakur A and Kumar S (Eds) (2021). Bilingual (Hindi & English) training manual entitled "Post-Harvest Handling and Processing of Freshwater Fish" under SCSP Scheme conducted at College of Fisheries, Kishanganj, (Bihar Animal Sciences University) Patna during 26-28 Nov, 2021 and published by ICAR-CIPHET, Ludhiana (p.107).

4. Muzaddadi AU (2021). Liver Fish Carrier System In: Training Manual on Post-Harvest Handling and Processing of Freshwater Fish under SCSP Scheme conducted at College of Fisheries, Kishanganj, (Bihar Animal Sciences University) Patna during 26-28 Nov, 2021 and published by ICAR-CIPHET, Ludhiana p 57-60.
5. Muzaddadi AU & Vikas Kumar (2021). ICAR-CIPHET Fish Descaling Hand-tool In: Training Manual on Post-Harvest Handling and Processing of Freshwater Fish under SCSP Scheme conducted at College of Fisheries, Kishanganj, (Bihar Animal Sciences University) Patna during 26-28 Nov, 2021 and published by ICAR-CIPHET, Ludhiana p 93-94.
6. Muzaddadi AU & Vikas Kumar (2021). ICAR-CIPHET technologies for animal handling and livestock product processing in: Training Manual on Post-Harvest Handling and Processing of Freshwater Fish under SCSP Scheme conducted at College of Fisheries, Kishanganj, (Bihar Animal Sciences University) Patna during 26-28 Nov, 2021 and published by ICAR-CIPHET, Ludhiana p 104-107.
7. Vikas Kumar & Muzaddadi AU (2021). Skill development training on Post Harvest Handling and processing of freshwater fish at Kishanganj district, Bihar under Scheduled Caste Sub Plan (SCSP) In: Training Manual on Post-Harvest Handling and Processing of Freshwater Fish under SCSP Scheme conducted at College of Fisheries, Kishanganj, (Bihar Animal Sciences University) Patna during 26-28 Nov, 2021 and published by ICAR-CIPHET, Ludhiana p 47-51.
8. Vikas Kumar & Muzaddadi AU (2021). Hygienic handling and icing of freshwater fish In: Training Manual on Post-Harvest Handling and Processing of Freshwater Fish under SCSP Scheme conducted at College of Fisheries, Kishanganj, (Bihar Animal Sciences University) Patna during 26-28 Nov, 2021 and published by ICAR-CIPHET, Ludhiana p 52-56.
9. Vikas Kumar & Muzaddadi AU (2021). Packaging of fish and fishery products In: Training Manual on Post-Harvest Handling and Processing of Freshwater Fish under SCSP Scheme conducted at College of Fisheries, Kishanganj, (Bihar Animal Sciences University) Patna during 26-28 Nov, 2021 and published by ICAR-CIPHET, Ludhiana p 61-69.
10. विका कुमार एवं अरमान यु. मुज़ाद्दादी (२०२१)। मीठे जल की मछली का फसलोत्तर प्रबंधन और बर्फ में ही रख-खाव, प्रशिक्षण पुस्तिका “मीठे जल की मछली पालन उपरांत -हैंडलिंग एवं प्रसंस्करण, अनु चित जाती उपयोजना प्रशिक्षण (२६-२८ नव, २०२१), भा.कृ.अनूप- केंद्रीय कटाई उपरांत अभियांत्रिकी एवं प्रौद्योगिकी स्थान, लुधियाना और मात्स्यिकी महाविद्यालय (बिहार पशु विज्ञान विश्वविद्यालय, पटना) p-1-5.
11. अरमान यु. मुज़ाद्दादी एवं विका कुमार (२०२१)। लाइव फिश कैरियर सिस्टम (एल. एफ. पी. एस.)- मछली किसानों की आय बढ़ाने हेतु एक नया आविष्कार , प्रशिक्षण पुस्तिका “मीठे जल की मछली पालन उपरांत - हैंडलिंग एवं प्रसंस्करण, अनु चित जाती उपयोजना प्रशिक्षण (२६-२८ नव, २०२१), भा.कृ.अनूप- केंद्रीय कटाई उपरांत अभियांत्रिकी एवं प्रौद्योगिकी स्थान, लुधियाना और मात्स्यिकी महाविद्यालय (बिहार पशु विज्ञान विश्वविद्यालय, पटना) p-6 -8.
12. विका कुमार एवं अरमान यु. मुज़ाद्दादी (२०२१)। मछली तथा मछली आधारित उत्पादों की पैकेजिंग, प्रशिक्षण पुस्तिका “मीठे जल की मछली पालन उपरांत -हैंडलिंग एवं प्र संस्करण, अनु चित जाती उपयोजना प्रशिक्षण (२६-२८ नव, २०२१), भा.कृ.अनूप- केंद्रीय कटाई उपरांत अभियांत्रिकी एवं प्रौद्योगिकी स्थान, लुधियाना और मात्स्यिकी महाविद्यालय (बिहार पशु विज्ञान विश्वविद्यालय, पटना) p-9 - 13.
13. अरमान यु. मुज़ाद्दादी एवं विका कुमार (२०२१)। भा.कृ.अनूप- सिफेट मछलियों के शल्क हटाने के लिए हैण्ड-टूल, प्रशिक्षण पुस्तिका “मीठे जल की मछली पालन उपरांत -हैंडलिंग एवं प्रसंस्करण, अनु चित जाती उपयोजना प्रशिक्षण (२६-२८ नव, २०२१), भा.कृ.अनूप- केंद्रीय कटाई उपरांत अभियांत्रिकी एवं प्रौद्योगिकी स्थान, लुधियाना और मात्स्यिकी महाविद्यालय (बिहार पशु विज्ञान विश्वविद्यालय, पटना) p-36 -37.

EVENTS/ACTIVITIES

ICAR-CIPHET, Ludhiana organised Industry Interface Fair on Agro processing – 2021 (CIPHET-IIFA 2021) during 3-4 Oct, 2021

ICAR-Central Institute of Post-Harvest Engineering and Technology, Ludhiana has celebrated its 33rd foundation day on 3 Oct, 2021. To commemorate the occasion and also to celebrate 75 years of Indian Independence, the Institute organized ICAR-CIPHET Industry Interface Fair on Agro processing – 2021 (CIPHET-IIFA 2021) during 3-4, Oct, 2021. The event was inaugurated virtually by Dr Suresh Kumar Chaudhari, DDG (NRM & Engg.), ICAR on 3 Oct, 2021 at 10.00 am. He highlighted that ICAR-CIPHET has a very vital role to play in increasing farmers' income. The technologies developed by the institute which includes machineries, equipment's, process protocols and value-added products can boost the income through processing and reducing post-harvest losses. All the former Directors of ICAR-CIPHET along with Dr K K Singh ADG (Engg.) and Dr S N Jha ADG (PE) were also present during the inauguration and expressed their views about the institute and ways forward. A technology compendium and six technical bulletins were also released during the occasion. In the virtual fair different technologies (machines, process, protocol etc.) were showcased in interesting way and panel discussions on different themes. The live virtual exhibition and interaction sessions were live throughout the days on 3 and 4 Oct, 2021. Various sessions and virtual exhibition were attended by 3695 participants during the CIPHET-IIFA 2021.



Employee Corner | IILAN OIS website

भारतीय कृषि अनुसंधान परिषद
Indian Council of Agricultural Research
(Ministry of Agriculture and Farmers Welfare)

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ICAR at a Glance

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- ICAR Awards 2020

Divisions and Units

- Crop Science
- Horticultural Science
- Natural Resource Management
- Agricultural Engineering

ICAR-CIPHET celebrates 33rd Foundation Day

3 - 4 October, 2021, Ludhiana

The ICAR-Central Institute of Post-Harvest Engineering and Technology, Ludhiana, Punjab organized the "ICAR-CIPHET Industry Interface Fair on Agro-Processing - 2021 (CIPHET-IIFA - 2021)" on the occasion of its 33rd Foundation Day celebrations from 3rd to 4th October, 2021.



In his inaugural address, Dr. Suresh Kumar Chaudhari, Deputy Director General (Natural Resource Management & Agricultural Engineering), ICAR highlighted the pivotal role of ICAR-CIPHET in enhancing the farmers' income. He stated that the technologies developed by the Institute including machineries, equipments, process protocols and value-added products can boost the income through processing and reducing the post-harvest losses.

Dr. K.K. Singh ADG (Agricultural Engineering), ICAR and Dr. S.N. Jha, ADG (PE), ICAR along with the Former Directors of the Institute were also present during the occasion.

(Source: ICAR-Central Institute of Post-Harvest Engineering and Technology, Ludhiana, Punjab)

News

Kishu Diwas on "ICAR-Tripura - Transforming Rural Agriculture" organized

Webinar on "Organic Farming: Indian perspective of research and technology" @Bharat Ka Amrut Mahotsav

Webinar on "Organic Farming: Indian perspective of research and technology" @Bharat Ka Amrut Mahotsav

Aarinnovate India Limited (AarIn) orients "Non-Ferrous Global

Knowledge Initiatives

- KVK Portal
- MobileApp
- Agricultural Education Portal
- ICAR-e courses
- CamInfo
- Compendiums
- Consortium for e-Resources in Agriculture (CeRA)
- Foreign Visit Management System of DARE-ICAR
- Human Resource Management System

Site Implementation Group Meeting of Farmer FIRST Project to commemorate “Kisan Diwas” on 23 Nov, 2021.

ICAR-Central Institute of Post-Harvest Engineering and Technology, Ludhiana under its Farmer FIRST Program (FFP) organized site plan implementation group meeting to commemorate ‘Kisan Diwas’ on 23 Nov, 2021. Under the chairmanship of Dr. Nachiket Kotwaliwale, Director, ICAR-CIPHET, Ludhiana, the program was coordinated by Dr. Sandeep Mann, Pr. Scientist and FFP team. ICAR-CIPHET has established chemical free jaggery processing unit at Uppal Farm, Rahon and Agro Processing Centre (Khalsa Farm) at Balachaur, SBS Nagar, Punjab under FFP. Farmers were given live demonstrations of the established processing units (chemical free jaggery unit and agro-processing centre) to about seventy farmers. The lectures were delivered to explain the benefits of processing at production catchment and also about various government schemes available to promote post-harvest entrepreneurship. Dr. Rajbir Singh, Director, ICAR-ATARI, Ludhiana; Dr. Amandeep Singh Brar, Deputy Director, KVK, SBS Nagar; Dr. Rajesh, HDO; Dr. Kamaldeep Singh Sanga, Director, ATMA; Dr. Jaswinder, ADO; Dr. Rajkumar, AEO; Dr. Pritpal Singh, Dr. Rahul Kumar Anurag, Dr. Renu Balakrishnan, Er Yogesh Kalnar and team members were the facilitators. Dr. Nachiket Kotwaliwale highlighted the post-harvest loss of agricultural produce and sensitized farmers for agro-processing, value addition, custom hiring of APC facilities available at CIPHET at nominal rate and appealed farmers to participate in reducing huge post-harvest loss and increase their income by utilizing government resources. Dr. Rajbir Singh briefed about the benefits of agro-processing and justified the need to adopt such practices at field level.



Chemical free jaggery production unit (Uppal Farm, Rahon, SBS Nagar)



Agro-processing centre (M/s Khalsa Farm, Balachour, SBS Nagar)

- Vigilance Awareness Week was observed and various programmes from 26 Oct, 2021 to 1 Nov, 2021 were organized to celebrate the week.
- ICAR-CIPHET celebrated World Soil Day on 5 Dec, 2021. About 60 participants which include staffs from ICAR-CIPHET, students from SKAUST-K, Srinagar and BSKKV, Dapoli attended the programme.
- Organized Farmer- cum- Scientist Interface Meeting and Live Streaming of Honourable Prime Minister's Address on Natural Farming to farmers on 16 Dec, 2021. Total 182 participants including farmers, students and staffs of the institute attended this event

ICAR-CIPHET, Ludhiana organised a virtual workshop on Independent India@75: Self-reliance with Integrity on 1 Nov, 2021.

A virtual workshop on 'Independent India@75: Self-reliance with Integrity' through Zoom platform was organized. The chief guest and invited speaker for the workshop, Mr. G. P. Sharma, Director (Finance), ICAR delivered his speech and shared his views on Vigilance structure in India. About 41 participants attended this virtual programme.



AZADI KA AMRIT MAHOTSAV

ICAR-CIPHET, Ludhiana organised two lectures under 'Expertopedia' - National Webinar Series on Post-Harvest Processing on 18 Oct, 2021

To celebrate 75 years of the India's Independence "Azadi ka Amrit Mahotsav" ICAR-Central Institute of Post-Harvest Engineering and Technology, Ludhiana organized National Webinar Series 'Expertopedia' on 18 Oct, 2021 and the event consisted of two sessions. The first session was on 'Entrepreneurship in Livestock and Poultry Sector: Opportunities and Approach' delivered by Dr. Prithwi Singh, CEO, SuperZop, who shared his experience as to how different marketing models can help farming communities by creating the right medium to sell their produce and how they improve retailer's competitiveness by helping them to buy smarter and better. In the second session, Dr Rahul Srivastava, Consultant, International Development Organization, shared his views on Innovation & Livestock Products: The Way Ahead. About 200 participants from India and abroad attended this webinar.

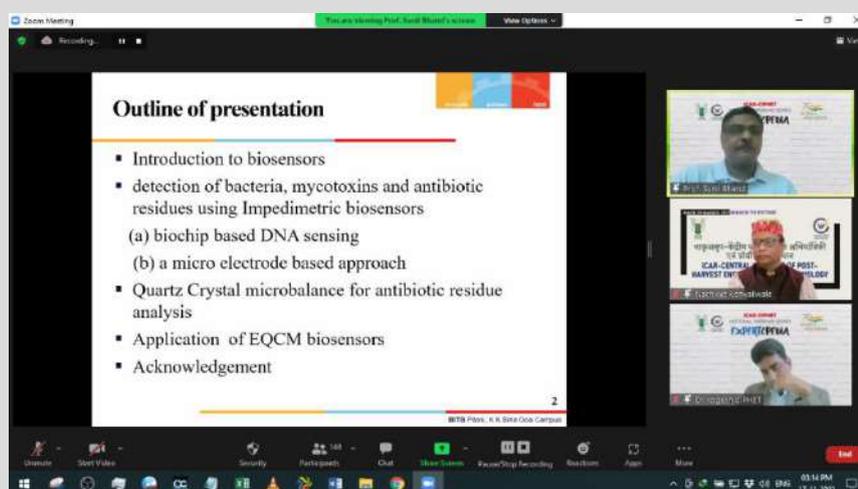


ICAR-CIPHET, Ludhiana organised a webinar on “Protected Agriculture- The Next Generation Agriculture” on 26 Oct, 2021.

ICAR-Central Institute of Post-Harvest Engineering and Technology, Ludhiana organized a webinar on ‘Protected Agriculture- The Next Generation Agriculture’ on 26 Oct, 2021. The lecture was delivered by Dr. R. K. Singh, Project Coordinator AICRP (PEASEM) and he explained the recent developments in the area of protected agriculture and its role in sustaining the agriculture production to cope with the increasing demand. The webinar was attended by about 80 participants from various organizations.

ICAR-CIPHET organized National Webinar Series 'Expertopedia' on 17 Nov, 2021

ICAR-Central Institute of Post-Harvest Engineering and Technology, Ludhiana organized National Webinar Series 'Expertopedia' on 17 Nov, 2021 to celebrate 75 years of the Indian Independence “Azadi ka Amrit Mahotsav” and the event consisted of two expert lectures. About 160 participants attended the webinar series.



ICAR-CIPHET organized Orientation programme: Opportunities in agriculture sector for entrepreneurship and employment for the students of Partap Public School, Ludhiana

In the series of events organized under “Azadi Ka Amrit Mahotsav”, ICAR-Central Institute of Post-Harvest Engineering and Technology, Ludhiana conducted an orientation programme on 26 Nov, 2021 under the theme “Opportunities in agriculture sector for entrepreneurship and employment” for school children of Partap Public School, Ludhiana. About 65 participants attended this program.

ICAR-CIPHET organised a national webinar on Plant Based Dairy Analogues on 29 Nov, 2021

An online webinar on the topic ‘Plant Based Dairy Analogues a Healthy Choice’ was organised by ICAR- Central Institute of Post-Harvest Engineering & Technology, Ludhiana.



ICAR-CIPHET organized National Webinar Series 'Expertopedia' on 10 Dec, 2021

ICAR-Central Institute of Post-Harvest Engineering and Technology, Ludhiana organized two expert lectures under National Webinar Series 'Expertopedia' on 10 Dec, 2021. About 260 participants attended the webinar series.

HUMAN RESOURCE DEVELOPMENT**Entrepreneurship Development Programme**

Name	Date	No. of Participants
Processing of groundnut/ Soybean for milk, curd and paneer like products	4-8 Oct, 2021	2
Economic Empowerment of Farmers and Entrepreneurs through Value Addition of Aonla	25-27 Nov 2021	1
Packaging of fresh, minimally processed fruits, vegetables and processed products	7-9 Dec, 2021	1

SCSP Training Programme

SCSP Training Programme	By	Date	No. of Participants
Post-Harvest Handling of Freshwater Fish	College of Fisheries, Kishanganj (Bihar)	26 - 28 Nov, 2021	50
Meat Processing Technologies for Entrepreneurship Development	ICAR-CIPHET, Ludhiana & KVK Pathankot	5-7 Oct, 2021	50
Post-Harvest Management of Onions and Grapes	SPHJ Science College, Savitribai Phule Pune University, Chandwad, Dist. Nashik, 423 101, Maharashtra	11-13 Oct, 2021	50

Students Training Programme

Name	College/University	Date	No. of Participants
In-plant training programme on introduction to Post-Harvest Engineering and Technologies	College of Agricultural Engineering & Technology, SKAUST-Kashmir & Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, College of Agricultural Engineering and Technology, Dapoli	17 Nov, 2021 to 16 Dec, 2021	25 B. Tech + 2 M.S

Conducted Training programmer	College of Fisheries, Ludhiana	GADVASU, Ludhiana	5-30 Oct, 2021	19
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EXTENSION ACTIVITIES

- Dr. K. Bembem, Scientist facilitated the visit of 06 no. of farm women from KVK, Barnala on 11 Oct, 2021 at ICAR-CIPHET, Ludhiana.
- ICAR-CIPHET organised an interaction meeting for 08 District Level Horticulture Officers from Dept. of Agriculture, Govt of Maharashtra on 06 Oct, 2021. The team interacted with Heads of Divisions and PCs of AICRPs and visited different facilities of the Institute.

SWACHH BHARAT MISSION:

ICAR-CIPHET organized a Special Swachhata Campaign on 12 Oct, 2021 at Ludhiana & Abohar and four events were conducted in the series. An event in the form of online programme with the theme entitled "Waste to wealth" was hosted at virtual platform. A total number of 358 people participated including school children, dignitaries, farmers and institute staff and benefited through this programme.



ANY OTHER ACTIVITY:

- Dr. Rahul K. Anurag selected as a Member in a Technical Committee for establishing a Testing Laboratory of Forest Produce and Herbs by Chhattisgarh State Minor Forest Produce (Trading & Development) Co-operative Federation Ltd., Raipur, Chhattisgarh.
- Dr. Mridula D. and Dr R.K. Vishwakarma attended the meeting of the "Committee of Senior Officials to prepare a road map for discussion, examination and implementation of recommendations by CIPHET", organized by the Department of Consumer Affairs, Ministry of Consumer Affairs, Food & Public Distribution (GoI), New Delhi.

- Dr D N Yadav visited IMRC, Pradeep Metals Ltd., Navi Mumbai on 10-14 Oct, 2021 for final evaluation of the facility of continuous microwave system and to standardise the process protocol in re-designed continuous microwave system for disinfestation of wheat and rice installed under consultancy project “Microwave assisted disinfestation of selected food grains (rice and wheat)”. The final trials were conducted and both the parties were satisfied with the output of the project work.



The Project working team of ICAR-CIPHET and IMRC, Pradeep Metals Ltd, Navi Mumbai.

- Dr. Sandeep Mann conducted Viva Voce examination of PhD student on 8 Oct, 2021 at SKUAS-Jammu.

PARTICIPATION IN CONFERENCE/ SEMINAR/ MEETING

Name	Title of Programme	Organized by	Duration
Dr. Mridula D	Committee of Senior Officials to prepare a road map for discussion, examination and implementation of recommendations by CIPHET	Department of Consumer Affairs, Ministry of Consumer Affairs, Food & Public Distribution (GoI), New Delhi	06 Oct, 2021
Dr. Guru P N	Review and Sensitization Workshop of ZTMUs/ITMUs/PMEs	ADG (IPTM) and CIAE, Bhopal	8 Oct, 2021
Dr. Guru P N	Preparation of Training Modules for Technical staff working at ICAR	HRM Unit, ICAR- New Delhi	20 Oct, 2021
Young Scientists	Interaction of DG, ICAR with Young Scientists on 8 Dec, 2021 Scientists of ICAR-CIPHET attended the Webinar on ‘Implementation and use of agricultural research management system (ARMS)	ICAR-Indian Agricultural Statistics Research Institute (IASRI), New Delhi, India	22 Oct, 2021

Dr. Mridula D	Development of Standard on Extruder and Blender used for Manufacturing of FRK/Fortified Rice	Bureau of Indian Standards, New Delhi	25 Oct 2021
Dr. Leena Kumari, Er. Shagahf Kaukab and ER. Thongam Sunita	Internet of Things (IoT)	ESCI Hyderabad	25-29 Oct. 2021
Er Akhoun Asrar Bashir	IoT for Smart Agriculture	SKUAST-Kashmir	28 Oct, to 10 Nov, 2021
Scientists	Interaction meeting of all the ICAR Scientists with Hon'ble Secretary, DARE & DG, ICAR	ICAR, New Delhi	28 Oct 2021
Dr Mridula D	Nutri Smart Villages: An Innovative Model for Strengthening Poshan Abhiyan	ICT Unit, ICAR, New Delhi	10 Nov, 2021
Dr Mridula	Food grains, Allied Products and Other Agricultural Produce	Bureau of Indian Standards (BIS), New Delhi.	10 Nov, 2021
Scientists	Talent Search for Manning Agriculture TREE (teaching, research and extension education)	Dr. C.D. Mayee Former Chairman, Agricultural Scientists Recruitment Board, New Delhi and Agri. Commissioner, MoA&FW, GoI, New Delhi	11 Nov, 2021
Scientific staff	Development of Sensors for Quality Analysis of Livestock Products & Recent Developments in Rapid Point-of-Care Devices for Quality Evaluation of Meat Products	Research & Consultancy, BITS PILANI, KK Birla Goa Campus)	17 Nov, 2021
Dr. Th Bidyalakshmi Devi	55th Annual Convention of ISAE	ISAE, New Delhi, Dr Rajendra Prasad Central Agricultural University, Pusa, Samastipur, Bihar and BAMETI, Patna, Bihar	23-25 Nov, 2021
Mr. Vikas Kumar	55th Annual Convention of ISAE	-do-	23-25 Nov, 2021
Dr Renu Balakrishnan	55th Annual Convention of ISAE	-do-	23-25 Nov, 2021
AU Muzdaddai	55th Annual Convention of ISAE	-do-	23-25 Nov, 2021
Dr. BM Ghodki	55th Annual Convention of ISAE	-do-	23-25 Nov 2021

Dr. Sandeep P. Dawange	55th Annual Convention of ISAE	-do-	23-25 Nov, 2021
Dr Ramesh Chand Kasana	Online meeting of Board of Studies - Amity Institute of Microbial Technology	Amity University, Jaipur	24 Nov, 2021
Dr. Renu Balakrishnan	National Workshop on Farmers Income and Research Impact Assessment	ICAR-NIAP, New Delhi	29 Nov, 2021
Scientific staff	ICAR-CIPHET National Webinar Series Expertopedia Talk 5 & 6' on Status & Scope of Non-Thermal Technology in India with Special Reference to Livestock Product Processing & Non-Thermal Technologies for Quality Improvement of Livestock & Fish Products	NIFTEM-T, Thanjavur, Tamil Nadu & Agricultural & Food Engineering, IIT Kharagpur	10 Dec, 2021
Mr. Vikas Kumar	ASM-IUSSTF virtual training programme	Nitte University, India and University of Maryland, USA	13-17 Dec 2021
Dr. Khwairakpam Bembem	International Web Conference on Global Research Initiatives for Sustainable Agriculture & Allied Sciences	Astha Foundation, Meerut (UP)	13-15 Dec 2021

Lecture delivered

- Dr. Ramesh Chand Kasana delivered a lecture on “Waste to Wealth” to the students of Partap Public School, Ludhiana on 12 Oct, 2021.
- Er. Shaghaf Kaukab delivered lecture on “New age solutions for Post-Harvest Management of Agricultural Produce during Pandemic- AI and IoT” on 21 Oct, 2021 in an online training on “Post-Harvest Management of Agricultural Produce during Pandemic” organised by ICAR-CIPHET and MANAGE Hyderabad from 20 - 22 Oct, 2021.
- Dr. Muzaddadi A.U. delivered a lecture entitled “Impact of pandemic on food and nutritional security – Healthy solutions through fish & fish-based products” on 20 Oct, 2021 in 3-day online training programme on “Online Training on Post-Harvest Management of Agricultural Produce during Pandemic’ during 20 Oct, – 22 Oct, 2021 conducted by ICAR-CIPHET, Ludhiana in collaboration with MANAGE, Hyderabad.
- Dr. Mridula D. delivered a lecture entitled ‘Impact of Pandemic on food and nutritional security-Healthy solutions through food grains’ on 21 Oct, 2021 via online mode to the participants of an ‘Online Training on Post-Harvest Management of Agricultural Produce during Pandemic’ during 20-22 Oct, 2021, organized by ICAR-CIPHET, Ludhiana in collaboration with MANAGE, Hyderabad.

KVK ACTIVITIES

Event	Date	No. of Participants
Training on “Vegetable Processing for Anganwadi Workers”	6-8 Oct, 2021	27
Mahila Kisan Diwas	15 Oct, 2021	45
Training on Cultivation techniques for rabi crops	22 Oct, 2021	20
Training on Protected Cultivation of Vegetable Crops	29 Oct, 2021	36
Training on drip irrigation	29 Oct, 2021	36
Training on Integrated Nutrient Management	12 Nov, 2021	19
Organized Distribution of agricultural input (Urea fertilizer)	15 Nov, 2021	-
training on ‘Vegetable Processing for rural women’	16-18 Nov, 2021	36
Training on Poultry and backyard Fishery	23-24 Nov, 2021	-
Organized World Soil Day	5 Dec, 2021	27

*World Soil Day**Mahila Kisan Diwas**Training on Protected Cultivation of Vegetable Crops*

SWACHH BHARAT ABHIYAN ACTIVITIES: Under the Swachh Bharat Abhiyan activities, weeding out of old files is underway. Swachhta Mah was organized by KVK, ICAR-CIPHET, Abohar on 16-31 Oct 2021. Apart from the regular cleaning activities, tree plantation campaign was also organized.



CRM Activities/Awareness Programme

Banner/ Hoarding Displayed:

Hoardings were displayed at main gate of KVK, ICAR-CIPHET, Abohar campus and Banner are displayed at different location in adopted villages. Demonstrations conducted simultaneously during the month.



Demonstration:

About 20 demonstrations were carried out in adopted villages with CRM Machinery.



TRANSFER OF TECHNOLOGY

Licensing

Technology	Licensed ton	Licensing Fee (Rs.)	Date of Licensing
Live fish carrier system and method of transporting live fish therein	Mr. Indrajith MV, Mangalath Padath House, PO: Mayannur, Dist. Thrissur, Kerala – 679105 Mob: 9496908483	100000	04 Oct, 2021
Live fish carrier system and method of transporting live fish therein	M/s JJ FISH (Farakka), Vill-Khaira Kandi, PO- Beniagram. PS – Farakka, Dist. - Murshidabad (West Bengal) – 742212 Mob: 8260370847	100000	06 Oct, 2021
Process for preparation of nutritious multigrain chapatti flour	M/s Rikhi Ram Nand Lal, Main Haibwal Road, Ludhiana, Punjab -141001	11000/-+ 18% GST	11 Oct, 2021

Custom hiring services

Custom hiring services of ‘Jamun pulp to Jamun bar’ at the rate of Rs.7/- per kg (based on pulp) is being given to Sh. Ashwani Garg from ‘UniTech Technocrats’, Kala Amb (Sirmour), HP.

CONSULTANCY PROJECT

- Consultancy project was initiated by Dr. Nachiket Kotwaliwale, Er. Yogesh B Kalnar and Dr. Guru, PN - Performance evaluation of ‘Fruit fly scanning machine’ funded by Indian Gherkins Exporters Association, Bengaluru-560070, India. The project team visited the machine facility at Hubballi, Karnataka and carried out the onsite performance evaluation of the X-ray based fruit fly scanning machine for gherkins.
- A final visit by the CIPHET project team Dr. D. N. Yadav and Dr. Guru P. N., under Consultancy Project entitled ‘Microwave Assisted Disinfestation of Selected Food Grains (Rice and Wheat), to the continuous microwave system facilities at IMRC, M/s Pradeep Metals Ltd., Navi Mumbai and conducted trials on developed system.
- Under Consultancy services to FCI by ICAR-CIPHET, Ludhiana, in order ‘to assess the specifications of paddy being procured by SPAs and stored in rice mill’, paddy samples from Grain Mandi, *Ayali* and one of the Rice Mill from Mullanpur, Ludhiana, and Rurkee Mandi and Pungrain Mandi, Sanghol, Chandigarh were collected as per FCI request in the presence of the FCI staff of these places. Collected paddy samples were analysed for grain parameters viz. moisture content, foreign matter, admixture, immature/shrunken/shrivelled grain, and damaged, discoloured, sprouted and weevilled grain. Reports of these analysis have been dispatched to FCI, Ludhiana and Chandigarh.
- Prepared and Submitted a Proposal (RFP) for “Consultancy for Setting up of Modern Lab at Chandigarh/Panchkula” on Oct 9, 2021.
- Submitted a brief proposal to Food Corporation of India, Divisional Office, Ludhiana, Punjab “To assess the specifications of paddy being procured by SPAs and stored in rice mills of Ludhiana and Sangrur divisions of FCI” on 13 Oct, 2021.

PATENT GRANTED

Patent application no. - 201911032375 entitled " A Method for Detection of Papaya Seed Powder Adulteration in Black Pepper Seed Powder", (Inventors: Dr. Manju Bala, Dr. Swati Sethi, Dr. Surya Tushir, Dr. Mridula Devi, Dr. R.K. Gupta, Dr. R.K. Singh), has been granted on 13 Dec, 2021.

AWARDS

Best Paper Presentation Award

Received best paper presentation award on 'Integration of sprouting and flaking technologies for ready-to-eat green gram flakes' authored by Swati Sethi and Mridula D. during 55th Annual Convention of Indian Society of Agricultural Engineers to be held on 23-25 Nov, 2021 at Patna, Bihar.

PERSONALIA

Joining

- Sh. Ramesh Chand Meena has joined as Chief Administrative Officer at this Institute on 25 Oct, 2021.



- Dr. Pankaj Kumar Kannaujia, Scientist transferred from ICAR-CIPHET, Abohar to ICAR-NBPGR, New Delhi on 20 Nov, 2021.

Transfer

- Dr. Kale Sakharam Jagan, Scientist ICAR-CIPHET, Abohar transferred to ICAR-IINRG, Ranchi.
- Dr. Prerna Nath, Scientist ICAR-CIPHET, Abohar transferred to ICAR-Research Complex for Eastern Region, Patna - Research Station, Ranchi.

Promotion

1. श्री राजीव शर्मा की बतौर तकनिकी अधिकारी पद पर पदोन्नति हुई है।
2. श्री गनपत राम की बतौर तकनिकी अधिकारी पद पर पदोन्नति हुई है।
3. श्री देविंदर कुमार की बतौर तकनिकी अधिकारी पद पर पदोन्नति हुई है।
4. श्री मनोज कुमार की बतौर तकनीशियन पद पर पदोन्नति हुई है।

SECTORIAL NEWS

Chuk launches bagasse-based packaging for food delivery

India's leading compostable tableware brand, Chuk, has launched 100% compostable, bagasse-based food delivery solutions. The sustainable food delivery solutions will cater to the entirety of the food delivery ecosystem, including QSRs, dark kitchens, delivery kitchens, and cloud kitchens.
<http://www.fnbnews.com/Food-Processing/chuk-launches-bagasse-based-packaging-for-food-delivery-65903>

Why Do Drinks Taste Better with a Straw?

The key here is temperature. Let's think about a milkshake—cold, right? If you're not sipping it through a straw, you'll likely get a mouthful of chilled ice cream and a brain freeze, and it's probably not going to taste much like chocolate or vanilla. In this instance, your mouth is overwhelmed by the cold temperature of the shake, slowing down the process of VOCs getting picked up by the receptors in your nose.

Take one sip with a straw and that all changes. The amount of ice cream in your mouth is smaller, giving it more room to heat up, melt and send VOCs straight to the nose. The result is a sweet and tasty milkshake. It's time to test this science with our milkshake recipes!
<https://www.tasteofhome.com/article/why-do-drinks-taste-better-with-a-straw/>

Smart and sustainable food packaging keeps harmful microbes at bay

A team of scientists Nanyang Technological University, Singapore (NTU Singapore) and Harvard T.H. Chan School of Public Health, US has developed a 'smart' food packaging material that is biodegradable, sustainable and kills microbes that are harmful to humans. It could also extend the shelf-life of fresh fruit by two to three days.
<https://www.sciencedaily.com/releases/2021/12/211229084253.htm>

CIPHET in NEWS



ਪ੍ਰਬੰਧਕਾਂ ਨਾਲ ਆਈਸੀਏਆਰ (ਸੀਫੇਟ) ਦਾ ਸਟਾਫ਼, ਐੱਸਕੇਓਯੂਐੱਸਟੀ-ਕੇ ਸ਼੍ਰੀਨਗਰ ਅਤੇ ਬੀਐੱਸਕੇਕੇਵੀ ਦਾਪੋਲੀ ਦੇ ਵਿਦਿਆਰਥੀ।

ਆਈਸੀਏਆਰ ਵਿਖੇ ਮਨਾਇਆ ਵਿਸ਼ਵ ਭੂਮੀ ਦਿਵਸ

ਪਲਵਿੰਦਰ ਸਿੰਘ ਚੁੱਡੀਕੇ, ਲੁਧਿਆਣਾ

ਆਈਸੀਏਆਰ (ਸੀਫੇਟ) ਵਿਖੇ ਸੈਂਟਰਲ ਇੰਸਟੀਚਿਊਟ ਆਫ ਪੋਸਟ-ਹਾਰਵੈਸਟ ਇੰਜੀਨੀਅਰਿੰਗ ਐਂਡ ਟੈਕਨਾਲੋਜੀ ਲੁਧਿਆਣਾ ਵਿਖੇ ਐਤਵਾਰ ਨੂੰ ਵਿਸ਼ਵ ਭੂਮੀ ਦਿਵਸ ਮਨਾਇਆ ਗਿਆ। ਇਸ ਦੌਰਾਨ ਮਾਹਿਰਾਂ ਨੇ ਸੰਬੰਧਨ ਕਰਦਿਆਂ ਕਿਹਾ ਕਿ ਮਿੱਟੀ ਵਾਤਾਵਰਨ ਪ੍ਰਣਾਲੀ ਦੇ ਮਹੱਤਵਪੂਰਨ ਹਿੱਸਿਆਂ 'ਚੋਂ ਇੱਕ ਹੈ। ਵਿਸ਼ਵ ਭੂਮੀ ਦਿਵਸ ਸਾਡੇ ਈਕੋਸਿਸਟਮ 'ਚ ਮਿੱਟੀ ਦੀ ਮਹੱਤਤਾ ਅਤੇ ਮਿੱਟੀ ਦੇ ਨਿਘਾਚ ਦੇ ਗੰਭੀਰ ਪ੍ਰਭਾਵਾਂ ਨੂੰ ਦਰਸਾਉਂਦਾ ਹੈ। ਮਾਹਿਰਾਂ ਦੁਆਰਾ ਸਿਹਤ ਨੂੰ ਬਣਾਈ ਰੱਖਣ ਅਤੇ ਮਿੱਟੀ ਦੀ ਉਤਪਾਦਕਤਾ ਵਧਾਉਣ ਬਾਰੇ ਲੈਕਚਰ ਦੀ ਇੱਕ

ਲੜੀ ਦਿੱਤੀ ਗਈ। ਡਾ. ਅੰਗਰੇਜ ਸਿੰਘ ਐੱਸਸੀਏਟ ਪ੍ਰੋਫੈਸਰ ਸੀਓਏਈਟੀ ਪੀਏਯੂ ਲੁਧਿਆਣਾ ਨੇ ਭਾਰੀਦਾਰ ਨੂੰ ਮਿੱਟੀ ਦੀ ਉਤਪਾਦਕਤਾ ਨੂੰ ਵਧਾਉਣ ਲਈ ਮਿੱਟੀ ਦੇ ਜੈਵਿਕ ਪਦਾਰਥਾਂ ਦੇ ਪ੍ਰਬੰਧਨ ਦੀ ਮਹੱਤਤਾ ਬਾਰੇ ਚਾਨਣਾ ਪਾਇਆ। ਡਾ. ਰਾਕੇਸ਼ ਸ਼ਰਦਾ ਪੀਆਈਏਐੱਸਈਐੱਸ, ਪੀਏਯੂ ਤੇ ਏਆਈਸੀਆਰਪੀ ਨੇ ਦੱਸਿਆ ਕਿ ਪੌਸ਼ਟਿਕ ਸੁਰੱਖਿਆ ਮਿੱਟੀ ਦੀ ਸਿਹਤ 'ਤੇ ਵੀ ਨਿਰਭਰ ਕਰਦੀ ਹੈ। ਸਿਹਤਮੰਦ ਮਿੱਟੀ ਸਿਹਤਮੰਦ ਬੂਟਿਆਂ, ਸਿਹਤਮੰਦ ਭੋਜਨ ਅਤੇ ਸਿਹਤਮੰਦ ਮਨੁੱਖਾਂ ਦੀ ਅਗਵਾਈ ਕਰਦੀ ਹੈ। ਡਾ. ਕੇਜੀ ਸਿੰਘ ਸਾਬਕਾ ਮੁਖੀ ਐੱਸਡਬਲਯੂਸੀਈ ਸੀਓਏਈਟੀ ਪੀਏਯੂ, ਲੁਧਿਆਣਾ ਨੇ ਕਿਹਾ ਕਿ ਕੁੱਲ ਜ਼ਮੀਨ ਦਾ ਸਿਰਫ਼ 9 ਫੀਸਦੀ ਹੀ ਮਨੁੱਖਾਂ ਦੁਆਰਾ

ਖੇਤੀ ਅਤੇ ਰਹਿਣ ਲਈ ਵਰਤਣ ਲਈ ਉਪਲਬਧ ਹੈ। ਪੀਏਐੱਸਈਐੱਸ ਤੇ ਏਆਈਸੀਆਰਪੀ ਦੇ ਪੀਸੀ ਡਾ. ਅਚਕੇ ਸਿੰਘ ਨੇ ਦੱਸਿਆ ਕਿ ਵਧੇਰੇ ਰਸਾਇਣਕ ਖਾਦਾਂ ਦੀ ਵਰਤੋਂ ਨਾਲ ਮਿੱਟੀ 'ਚ ਲੂਟ (ਸਿਡੀਅਮ) ਦੇ ਪੱਧਰ ਵਿੱਚ ਵਾਧਾ ਹੁੰਦਾ ਹੈ, ਜਿਸ ਨਾਲ ਮਿੱਟੀ 'ਚ ਖਾਰਪਨ ਵੱਧਦਾ ਹੈ। ਇਸ ਲਈ ਕਿਸਾਨਾਂ ਨੂੰ ਮਿੱਟੀ ਦੀ ਸਿਹਤ ਨੂੰ ਬਰਕਰਾਰ ਰੱਖਣ ਲਈ ਆਪਣੇ ਖੇਤ 'ਚ ਵੱਧ ਤੋਂ ਵੱਧ ਜੈਵਿਕ ਤੰਤ ਸ਼ਾਮਲ ਕਰਨ ਲਈ ਪ੍ਰੇਰਿਤ ਕਰਨਾ ਚਾਹੀਦਾ ਹੈ। ਪ੍ਰੋਗਰਾਮ 'ਚ ਲਗਪਗ 60 ਪ੍ਰਤੀਭਾਗੀਆਂ, ਜਿਨ੍ਹਾਂ 'ਚ ਆਈਸੀਏਆਰ (ਸੀਫੇਟ) ਦੇ ਸਟਾਫ਼, ਐੱਸਕੇਓਯੂਐੱਸਟੀ-ਕੇ ਸ਼੍ਰੀਨਗਰ ਅਤੇ ਬੀਐੱਸਕੇਕੇਵੀ ਦਾਪੋਲੀ ਦੇ ਵਿਦਿਆਰਥੀ ਸ਼ਾਮਲ ਹਨ।



ਸਰਕਾਰੀ ਸਕੀਮਾਂ ਬਾਰੇ ਦਿੱਤੀ ਜਾਣਕਾਰੀ

ਪੱਤਰ ਪ੍ਰੇਰਕ, ਲੁਧਿਆਣਾ : ਸਾਈਟ ਇੰਪਲੀਮੈਂਟੇਸ਼ਨ ਗਰੁੱਪ ਆਈਸੀਏਆਰ ਸੀਫੇਟ ਵੱਲੋਂ ਐੱਸਬੀਐੱਸ ਨਗਰ ਵਿਖੇ ਕਿਸਾਨ ਦਿਵਸ ਮਨਾਇਆ ਗਿਆ। ਇਸ ਪ੍ਰੋਗਰਾਮ ਦੀ ਪ੍ਰਧਾਨਗੀ ਡਾ. ਨਚਿਕੇਤ ਕੋਤਵਾਲੀਵਾਲੇ, ਡਾਇਰੈਕਟਰ ਆਈਸੀਏਆਰ ਸੀਫੇਟ ਨੇ ਕੀਤੀ। ਸਮਾਗਮ ਦਾ ਸੰਚਾਲਨ ਡਾ. ਸੰਦੀਪ ਮਾਨ ਪ੍ਰਿੰ. ਵਿਗਿਆਨੀ ਅਤੇ ਉਨ੍ਹਾਂ ਦੀ ਐਂਡਐਂਡਪੀ ਟੀਮ ਵੱਲੋਂ ਕੀਤਾ ਗਿਆ। ਆਈਸੀਏਆਰ ਸੀਫੇਟ ਨੇ ਐਂਡਐਂਡਪੀ ਅਧੀਨ ਖਾਲਸਾ ਫਾਰਮ, ਬਲਾਚੌਰ ਵਿਖੇ ਉਪਲ ਫਾਰਮ ਅਤੇ ਐਂਗਰੋ ਪ੍ਰੋਸੈਸਿੰਗ ਸੈਂਟਰ ਵਿਖੇ ਰਸਾਇਣ ਮੁਕਤ ਗੁੜ ਪ੍ਰੋਸੈਸਿੰਗ ਯੂਨਿਟ ਸਥਾਪਿਤ ਕੀਤਾ ਹੈ। ਕਿਸਾਨਾਂ ਨੂੰ ਪ੍ਰਾਜੈਕਟ ਟੀਮ ਦੁਆਰਾ ਸਥਾਪਿਤ ਪ੍ਰੋਸੈਸਿੰਗ ਯੂਨਿਟਾਂ ਦਾ ਲਾਈਵ ਪ੍ਰਦਰਸ਼ਨ ਦਿੱਤਾ ਗਿਆ। ਕਿਸਾਨਾਂ ਨੂੰ ਪ੍ਰੋਡਕਸ਼ਨ ਕੈਚਮੈਂਟ 'ਤੇ ਪ੍ਰੋਸੈਸਿੰਗ ਦੇ ਲਾਭਾਂ ਅਤੇ ਉਦਮਤਾ ਨੂੰ ਉਤਸ਼ਾਹਿਤ ਕਰਨ ਲਈ ਉਪਲਬਧ ਵੱਖ-ਵੱਖ ਸਰਕਾਰੀ ਸਕੀਮਾਂ ਬਾਰੇ ਦੱਸਿਆ ਗਿਆ। ਡਾ. ਰਾਜਬੀਰ ਸਿੰਘ, ਡਾਇਰੈਕਟਰ,



ਸਮਾਗਮ ਦੌਰਾਨ ਸੰਬੰਧਿਤ ਕਰਦੇ ਹੋਏ ਮਾਹਿਰ ਅਤੇ ਸਮਾਗਮ 'ਚ ਸ਼ਾਮਲ ਕਿਸਾਨਾਂ ਅਤੇ ਹੋਰ।

ਆਈਸੀਏਆਰ ਅਟਾਰੀ, ਲੁਧਿਆਣਾ, ਡਾ. ਅਮਨਦੀਪ ਸਿੰਘ ਬਰਾੜ ਡਿਪਟੀ ਡਾਇਰੈਕਟਰ ਕੇਵੀਕੇ, ਐੱਸਬੀਐੱਸ ਨਗਰ, ਡਾ. ਰਾਜੇਸ਼ ਐੱਚਡੀਓ, ਕਮਲਦੀਪ ਸਿੰਘ ਸੰਘਾ, ਏਟੀਐੱਮਏ ਦੇ ਡਾਇਰੈਕਟਰ ਡਾ. ਜਸਵਿੰਦਰ, ਏਡੀਓ ਡਾ. ਰਾਜਕੁਮਾਰ, ਏਈਓ, ਡਾ. ਪ੍ਰਿਤਪਾਲ ਸਿੰਘ, ਡਾ. ਰਾਹੁਲ

ਕੁਮਾਰ ਅਨੁਰਾਗ, ਡਾ. ਰੇਵੂ ਬਾਲਕ੍ਰਿਸ਼ਨਨ, ਈਆਰ ਯੋਗੇਸ਼ ਕਾਲਨਾਰ ਅਤੇ ਹੋਰ ਟੀਮ ਮੈਂਬਰਾਂ ਨੇ ਸ਼ਿਰਕਤ ਕੀਤੀ। ਡਾ. ਕੋਤਵਾਲੀਵਾਲੇ ਨੇ ਵਾਢੀ ਤੋਂ ਬਾਅਦ ਖੇਤੀ ਉਪਜ ਦੇ ਨੁਕਸਾਨ ਨੂੰ ਉਜਾਗਰ ਕੀਤਾ ਅਤੇ ਕਿਸਾਨਾਂ ਨੂੰ ਖੇਤੀ ਪ੍ਰੋਸੈਸਿੰਗ, ਮੁੱਲ ਵਾਧੇ, ਸੀਆਈਪੀਸੀਈਟੀ 'ਚ

ਸਮਾਗਮ

- ਸਾਈਟ ਇੰਪਲੀਮੈਂਟੇਸ਼ਨ ਗਰੁੱਪ ਆਈਸੀਏਆਰ ਸੀਫੇਟ ਨੇ ਮਨਾਇਆ ਕਿਸਾਨ ਦਿਵਸ

ਨਾਮਾਤਰ ਦਰਾਂ 'ਤੇ ਉਪਲਬਧ ਏਪੀਸੀ ਸਹੂਲਤਾਂ ਦੀ ਕਸਟਮ ਹਾਇਲਿੰਗ ਲਈ ਜਾਗਰੂਕ ਕੀਤਾ ਅਤੇ ਕਿਸਾਨਾਂ ਨੂੰ ਵਾਢੀ ਤੋਂ ਬਾਅਦ ਦੇ ਭਾਰੀ ਨੁਕਸਾਨ ਨੂੰ ਘਟਾਉਣ ਅਤੇ ਆਪਣੀ ਆਮਦਨ ਵਧਾਉਣ 'ਚ ਹਿੱਸਾ ਲੈਣ ਦੀ ਅਪੀਲ ਕੀਤੀ। ਸਰਕਾਰੀ ਸਰੋਤਾਂ ਦੀ ਵਰਤੋਂ ਕਰ ਕੇ ਡਾ. ਰਾਜਬੀਰ ਨੇ ਐਂਗਰੋ-ਪ੍ਰੋਸੈਸਿੰਗ ਦੇ ਡਾਇਰੈਕਟਰ ਬਾਰੇ ਦੱਸਿਆ ਅਤੇ ਅਜਿਹੇ ਅਮਲਾਂ ਨੂੰ ਦਾਇਰ ਪੱਧਰ 'ਤੇ ਅਪਣਾਉਣ ਦੀ ਲੋੜ ਨੂੰ ਜਾਇਜ਼ ਠਹਿਰਾਇਆ। ਕਿਸਾਨ ਪਰਮਾਣੀ ਸਿੰਘ ਖਾਲਸਾ ਅਤੇ ਸੋਹਣ ਸਿੰਘ ਉਪਲ ਨੇ ਸੰਸਥਾ ਅਤੇ ਐਂਡਐਂਡਪੀ ਦਾ ਧੰਨਵਾਦ ਕੀਤਾ। ਇਸ ਮੌਕੇ ਲਗਪਗ 70 ਕਿਸਾਨਾਂ ਨੇ ਉਤਸ਼ਾਹ ਨਾਲ ਭਾਗ ਲਿਆ।

‘ਸਿਫੇਟ-ਆਈਫਾ 2021’ ਦੀ ਸਮਾਪਤੀ

ਤਕਨੀਕਾਂ ਦੀ ਪੇਸ਼ਕਾਰੀ ਨੇ ਕੀਤਾ ਪ੍ਰਭਾਵਿਤ

ਪਲਵਿੰਦਰ ਸਿੰਘ ਫੁੱਡੀਕੇ, ਲੁਧਿਆਣਾ

ਆਈਸੀਏਆਰ-ਸੈਂਟਰਲ ਇੰਸਟੀਚਿਊਟ ਆਫ ਪੋਸਟ-ਹਾਰਵੈਸਟ ਇੰਜੀਨੀਅਰਿੰਗ ਐਂਡ ਟੈਕਨਾਲੋਜੀ ਲੁਧਿਆਣਾ ਵਿਖੇ ਸੈਂਟਰ ਦੇ 33ਵੇਂ ਸਥਾਪਨਾ ਦਿਵਸ ਅਤੇ ਆਜ਼ਾਦੀ ਦੀ 75 ਵੀਂ ਵਰ੍ਹੇਗੰਢ ਮੌਕੇ ਕਰਵਾਇਆ ਸਿਫੇਟ-ਆਈਫਾ 2021 ਉਦਯੋਗ ਇੰਟਰਫੇਸ ਵਰਚੁਅਲ ਮੇਲਾ ਸੋਮਵਾਰ ਨੂੰ ਸਮਾਪਤ ਹੋਇਆ। ਸਮਾਗਮ ਦਾ ਉਦਘਾਟਨ ਆਈਸੀਏਆਰ ਨਵੀਂ ਦਿੱਲੀ ਦੇ ਡੀਡੀਜੀ ਡਾ. ਸੁਰੇਸ਼ ਕੁਮਾਰ ਚੌਧਰੀ ਵੱਲੋਂ ਕੀਤਾ ਗਿਆ। ਏਡੀਜੀ (ਇੰਜੀਨੀਅਰ) ਅਤੇ ਡਾ. ਐਸਐਨ ਝਾਮ ਏਡੀਜੀ (ਪੀਈ) ਵੀ ਵਰਚੁਅਲ ਉਦਘਾਟਨ ਸਮਾਗਮ ਦੌਰਾਨ ਮੌਜੂਦ ਸਨ। ਉਨ੍ਹਾਂ ਸੰਸਥਾ ਸਥੱਠੀ ਅਖਣ ਵਿਚਾਰ ਪ੍ਰਗਟ ਕੀਤੇ। ਵਰਚੁਅਲ ਮੇਲੇ ਵਿੱਚ ਵੱਖ-ਵੱਖ ਤਕਨੀਕਾਂ (ਮਸ਼ੀਨਾਂ, ਪ੍ਰਕਿਰਿਆ, ਪ੍ਰੋਟੋਕੋਲ ਆਦਿ) ਨੂੰ ਵੀਡੀਓ ਸਮੇਤ ਦਿਲਚਸਪ ਤਰੀਕੇ ਨਾਲ ਪ੍ਰਦਰਸ਼ਿਤ ਕੀਤਾ ਗਿਆ। ਵੱਖ-ਵੱਖ ਸਨਮਾਨਿਤ ਸੰਸਥਾਵਾਂ ਦੇ ਮਾਹਿਰਾਂ ਅਤੇ ਵਿਸ਼ਾ ਵਸਤੂ ਦੇ ਮਾਹਰਾਂ ਨਾਲ ਡੋਜਨ ਦੀ ਗੁਣਵੱਤਾ ਅਤੇ ਸੁਰੱਖਿਆ, ਉਦਮਤਾ ਵਿਕਾਸ ਸਮੇਤ 5 ਵਿਸ਼ਿਆਂ 'ਤੇ



ਵਰਚੁਅਲ ਮੇਲੇ 'ਚ ਸ਼ਾਮਲ ਹੋਏ ਮਹਿਮਾਨਾਂ ਅਤੇ ਮਾਹਰਾਂ ਦਾ ਧੰਨਵਾਦ ਕਰਦੇ ਹੋਏ ਆਈਸੀਏਆਰ-ਸਿਫੇਟ ਦੇ ਡਾਇਰੈਕਟਰ ਡਾ. ਨਚਿਕੇਤ ਕੋਤਵਾਲੀਵਾਲੇ।

ਪੇਂਨਲ ਵਿਚਾਰ-ਵਟਾਦਰਾ ਕੀਤਾ ਗਿਆ। ਪ੍ਰਬੰਧਕਾਂ ਨੇ ਕਿਹਾ ਕਿ ਆਈਸੀਏਆਰ-ਸਿਫੇਟ ਨੇ ਹੁਣ ਤਕ ਪੂਰੇ ਦੇਸ਼ 'ਚ ਲਗਪਗ 300 ਏਪੀਸੀ ਸਥਾਪਤ ਕੀਤੇ ਹਨ ਅਤੇ ਆਤਮ-ਨਿਰਭਰ ਭਾਰਤ ਨੂੰ ਯਕੀਨੀ ਬਣਾਉਣ ਅਤੇ ਕਿਸਾਨਾਂ ਦੀ ਆਮਦਨ ਵਧਾਉਣ ਲਈ ਹੋਰ ਏਸੀਪੀ ਸਥਾਪਿਤ ਕਰਨ ਦੀ ਯੋਜਨਾ ਬਣਾਈ ਹੈ। ਉਨ੍ਹਾਂ ਕਿਹਾ ਕਿ ਆਈਸੀਏਆਰ-ਸਿਫੇਟ ਦੁਆਰਾ ਕੀਤੇ

ਗਏ ਇੱਕ ਅਧਿਐਨ ਤੋਂ ਪਤਾ ਲੱਗਾ ਹੈ ਕਿ ਕਿਸਾਨ ਸਿਰਫ ਫਲਾਂ ਦੀ ਸਫਾਈ ਅਤੇ ਗਰੇਡਿੰਗ ਯੂਨਿਟ ਸੰਚਾਲਨ ਅਪਣਾ ਕੇ ਆਪਣੀ ਆਮਦਨੀ 'ਚ 25 ਫੀਸਦੀ ਵਾਧਾ ਕਰ ਸਕਦੇ ਹਨ। ਆਈਸੀਏਆਰ-ਸਿਫੇਟ ਦੇ ਡਾਇਰੈਕਟਰ ਡਾ. ਨਚਿਕੇਤ ਕੋਤਵਾਲੀਵਾਲੇ ਨੇ ਸਰਗਰਮ ਭਾਗੀਦਾਰੀ ਲਈ ਸਾਰੇ ਵਰਚੁਅਲ ਮਹਿਮਾਨਾਂ ਅਤੇ ਮਾਹਰਾਂ ਦਾ ਧੰਨਵਾਦ ਕੀਤਾ।



ਪੰਜਾਬੀ ਜਾਗਰਣ

ਫਰਮ ਨੂੰ ਦਿੱਤਾ ਮਾਈਕ੍ਰੋਬਾਇਲ ਵਿਧੀ ਦਾ ਲਾਇਸੈਂਸ

ਪੱਤਰ ਪ੍ਰੇਰਕ, ਲੁਧਿਆਣਾ

ਆਈਸੀਏਆਰ-ਸੀਫੇਟ ਵੱਲੋਂ ਸ਼ਿੱਕਰਵਾਰ ਨੂੰ ਮਹਾਰਾਸ਼ਟਰ ਸਥਿਤ ਫਰਮ ਨੂੰ ਮੁੰਗਫਲੀ ਤੋਂ ਪ੍ਰੋਟੀਨ ਆਈਸੋਲੇਟਸ ਅਤੇ ਡੇਅਰੀ ਐਨਲਾਗਸ ਲਈ ਮਾਈਕ੍ਰੋਬਾਇਲ ਵਿਧੀ ਲਈ ਲਾਇਸੈਂਸ ਦਿੱਤਾ ਗਿਆ। ਫਰਮ ਨਾਲ ਤਾਲਮੇਲ ਕਰਨ 'ਚ ਡਾ. ਹੇਡੂ ਬਾਲਕ੍ਰਿਸ਼ਨਨ ਆਈਸੀ ਆਈਟੀਐਮਯੂ ਨੇ ਆਈਮ ਡੂਮਿਕ ਨਿਭਾਈ।

ਡਾ. ਹੇਡੂ ਨੇ ਦੱਸਿਆ ਕਿ ਆਈਸੀਏਆਰ-ਸੀਫੇਟ ਹੋਲਬ ਫੂਡ ਉਤਪਾਦਾਂ ਦੇ ਵਿਕਾਸ ਅਤੇ ਰਾਸ਼ਟਰ ਦੀਆਂ ਭੋਜਨ ਸ਼ੁਰੂਰਤਾਂ ਨੂੰ ਪੂਰਾ ਕਰਨ ਲਈ ਵਚਨਬੱਧ ਅਤੇ ਇਸ ਖੇਤਰ 'ਚ ਨਿਰੰਤਰ ਕੰਮ ਕਰ ਰਿਹਾ ਹੈ। ਤੇਲ ਬੀਜ ਵਿਸ਼ਵ ਭਰ 'ਚ ਪੌਸ਼ਟਿਕ ਉਤਪਾਦਾਂ, ਕੁਦਰਤੀ ਭੋਜਨ ਅਤੇ ਪ੍ਰੀਮੀਅਮ



ਸਿਖਲਾਈ ਪੂਰੀ ਹੋਣ 'ਤੇ ਉੱਦਮੀ ਨੂੰ ਸਰਟੀਫਿਕੇਟ ਪ੍ਰਦਾਨ ਕਰਦੇ ਹੋਏ ਆਈਸੀਏਆਰ-ਸੀਫੇਟ ਦੇ ਡਾਇਰੈਕਟਰ ਡਾ. ਨਰੀਕੇਤ ਕੋਤਵਾਲੀਵਾਲੇ ਅਤੇ ਨਾਲ ਹਨ ਹੋਰ।

ਸਨੈਕ ਭੋਜਨ ਲਈ ਉੱਤਮ ਗੁਣਵੱਤਾ ਅਤੇ ਵਿਸ਼ੇਸ਼ਤਾ ਵਾਲੇ ਬਨਸਪਤੀ ਤੇਲ ਦੇ ਸਰੋਤ ਤੋਂ ਪ੍ਰੋਟੀਨ ਆਈਸੋਲੇਟਸ ਅਤੇ ਡੇਅਰੀ

ਐਨਾਲੋਗਸ ਲਈ ਮਾਈਕ੍ਰੋਬਾਇਲ ਵਿਧੀ ਵਿਕਸਿਤ ਕੀਤੀ ਹੈ, ਜੋ ਕਿ ਡਾਈਟ ਕਰਨ ਵਾਲੇ ਵਿਅਕਤੀਆਂ ਦੇ ਨਾਲ-ਨਾਲ ਦੁੱਧੀਆਂ ਤਰ ਦੇ ਸ਼ਾਕਾਹਾਰੀ ਲੋਕਾਂ ਲਈ ਬਹੁਤ ਮਹੱਤਵਪੂਰਨ ਹਨ।

ਮਹਾਰਾਸ਼ਟਰ ਅਧਾਰਤ ਫਰਮ ਮੈਸਰਜ਼ ਸਮਯੋਗ ਹੈਲਥ ਫੂਡਜ਼ ਪ੍ਰਾਈਵੇਟ ਲਿਮਿਟੇਡ ਨੇ ਇਨ੍ਹਾਂ ਸੰਭਾਵੀ ਤਕਨਾਲੋਜੀਆਂ ਲਈ ਸੀਫੇਟ ਨਾਲ ਸੰਪਰਕ ਕੀਤਾ। ਡਾ. ਡੀਐੱਨ.ਯਾਦਵ ਬੱਚੀ ਅਤੇ ਵਿਗਿਆਨੀ ਐਫਜੀ ਐੱਫ ਓਪੀ ਡਵੀਜ਼ਨ ਨੇ 16 ਤੋਂ 20 ਨਵੰਬਰ 2021 ਤਕ ਫਰਮ ਦੇ ਉੱਦਮੀ ਨੂੰ ਸਿਖਲਾਈ ਦਿੱਤੀ। ਆਈਸੀਏਆਰ-ਸੀਫੇਟ ਦੇ ਡਾਇਰੈਕਟਰ ਡਾ. ਨਰੀਕੇਤ ਕੋਤਵਾਲੀਵਾਲੇ ਵੱਲੋਂ ਉੱਦਮੀ ਨੂੰ ਸਫਲਤਾਪੂਰਵਕ ਸਿਖਲਾਈ ਪੂਰੀ ਕਰਨ 'ਤੇ ਸਰਟੀਫਿਕੇਟ ਪ੍ਰਦਾਨ ਕੀਤਾ ਗਿਆ।



ਸਮਾਗਮ ਦੀ ਸਮਾਪਤੀ ਮੌਕੇ ਪ੍ਰਬੰਧਕਾਂ ਨਾਲ ਨਗਰ ਆ ਰਹੇ ਪ੍ਰਤਾਪ ਸਤੁਲ ਦੇ ਵਿਦਿਆਰਥੀ।

ਆਈਸੀਏਆਰ ਵਿਖੇ ਓਰੀਐਂਟੇਸ਼ਨ ਪ੍ਰੋਗਰਾਮ

ਪਲਾਂਟਿੰਗ ਸਿੱਖ ਚੁੱਤੀਕੇ, ਲੁਧਿਆਣਾ

ਆਈਸੀਏਆਰ (ਸੀਫੇਟ) ਵਿਖੇ ਸ਼ੁਕਰਵਾਰ ਨੂੰ 'ਉੱਦਮਤਾ ਅਤੇ ਰੁਜ਼ਗਾਰ ਲਈ ਖੇਤੀਬਾੜੀ ਖੇਤਰ 'ਚ ਮੌਕੇ' ਵਿਖੇ ਹੋਣ ਵਾਲੇ ਓਰੀਐਂਟੇਸ਼ਨ ਪ੍ਰੋਗਰਾਮ ਕਰਵਾਇਆ ਗਿਆ। ਪ੍ਰੋਗਰਾਮ ਦੀ ਸ਼ੁਰੂਆਤ ਸੰਸਥਾ ਵੱਲੋਂ ਕੀਤੀਆਂ ਜਾ ਰਹੀਆਂ ਵੱਖ-ਵੱਖ ਗਤੀਵਿਧੀਆਂ ਬਾਰੇ ਵੀਡੀਓ ਦਿਖਾ ਕੇ ਕੀਤੀ ਗਈ। ਇਸ ਮੌਕੇ ਪ੍ਰਤਾਪ ਪਬਲਿਕ ਸਕੂਲ ਦੇ ਬੱਚਿਆਂ ਨੂੰ ਉੱਦਮੀ ਵਿਕਾਸ ਲਈ ਸੰਸਥਾ ਵਿਖੇ ਉਪਲਬਧ ਵੱਖ-ਵੱਖ ਸਹੂਲਤਾਂ ਬਾਰੇ ਜਾਣੂ ਕਰਵਾਇਆ ਗਿਆ। ਇਸ ਮੌਕੇ

ਉਪਰਾਲਾ

- ਪ੍ਰੋਗਰਾਮ 'ਚ ਲਗਪਗ 65 ਪ੍ਰਤੀਯੋਗੀਆਂ ਨੇ ਲਿਆ ਹਿੱਸਾ
- ਦਾਲ, ਮਸਾਲਾ ਮਿਲਿੰਗ ਤੇ ਪਾਸਤਾ ਬਣਾਉਣ ਬਾਰੇ ਚਿੱਠੀ ਜਾਣਕਾਰੀ

ਐਗਰੋ ਪ੍ਰੋਮੋਸ਼ਿੰਗ ਸੈਂਟਰ ਵਿੱਚ ਦਾਲ ਅਤੇ ਮਸਾਲਾ ਮਿਲਿੰਗ ਅਤੇ ਪਾਸਤਾ ਬਣਾਉਣ ਵਰਗੀਆਂ ਸਹੂਲਤਾਂ ਦਾ ਪ੍ਰਦਰਸ਼ਨ ਕੀਤਾ ਗਿਆ। ਵਿਦਿਆਰਥੀਆਂ ਨੇ ਸੰਸਥਾ ਦੇ

ਐਗਰੋ ਪ੍ਰੋਮੋਸ਼ਿੰਗ ਸੈਂਟਰ ਅਤੇ ਹੋਰ ਵੱਖ-ਵੱਖ ਪ੍ਰਯੋਗਸ਼ਾਲਾਵਾਂ ਦਾ ਦੌਰਾ ਵੀ ਕੀਤਾ। ਪ੍ਰੋਗਰਾਮ ਦਾ ਸੰਚਾਲਨ ਡਾ. ਆਰਸੀ ਕਸਾਨ, ਪ੍ਰਮੁੱਖ ਵਿਗਿਆਨੀ, ਡਾ. ਚੀਪਿਕਾ ਗੋਸਵਾਮੀ ਵਿਗਿਆਨੀ ਅਤੇ ਡਾ. ਲੀਨਾ ਕੁਮਾਰੀ ਨੇ ਕੀਤਾ। ਡਾ. ਐੱਸਕੇ ਤਿਆਗੀ ਆਈਸੀ ਡਾਇਰੈਕਟਰ ਆਈਸੀਏਆਰ-ਸੀਆਈਪੀਈਈਟੀਈਟੀ ਨੇ ਸਾਰੇ ਡਾਰੀਦਾਰਾਂ ਦਾ ਧੰਨਵਾਦ ਕੀਤਾ। ਇਸ ਪ੍ਰੋਗਰਾਮ 'ਚ ਲਗਪਗ 65 ਪ੍ਰਤੀਯੋਗੀਆਂ ਨੇ ਭਾਗ ਲਿਆ।



ਪੰਜਾਬੀ ਜਾਗਰਣ

ਬਿਹਾਰ ਸੰਘ

ਪਟਨਾ, ਬੁੱਧਵਾਰ 01 ਦਿਸੰਬਰ, 2021

ਕਿਸ਼ਾਨਗੰਜ ਸਥਿਤ ਡਾੱ ਕਲਾਮ ਐਗਰੀਕਲਚਰ ਕਾਲਜ ਪ੍ਰਾਂਗਣ ਮੈਂ ਆਯੋਜਿਤ ਸੀਠੇ ਜਲ ਕੀ ਮਛਲੀ ਪਾਲਨ-ਹੈਂਡਲਿੰਗ-ਪ੍ਰਸੰਸਕਰਣ ਕੇ ਤੀਨ ਦਿਵਸੀਯ ਪ੍ਰਸ਼ਿਕਸ਼ਣ ਕਾਰਯਕ੍ਰਮ ਕਾ ਸਮਾਪਨ ਕਾਂਗ੍ਰੇਸ ਵਿਧਾਯਕ ਝਜਹਾਰਲੁ ਹੁਸੈਨ ਕੇ ਹਾਥੀਂ ਸਮ੍ਪਨ

ਵਿਧਾਯਕ ਝਜਹਾਰਲੁ ਨੇ ਪ੍ਰਸ਼ਿਕਸ਼ਣ ਮੈਂ ਮਾਗ ਲਿਏ ਕ੍ਰੁਸ਼ਕੀਂ ਕੀ ਕੀਯਾ ਪ੍ਰੋਲ੍ਸਾਹਿਤ, ਕਛਾ-ਸਰਕਾਰ ਕੀ ਏਸੀ ਲਾਮਦਾਯਕ ਯੋਜਨਾਓਂ ਕਾ ਚਠਾਝਯੇ ਲਾਮ

ਵਿਸ਼ਾਲ ਕੁਸ਼ਾਰ
 ਸੀਮਾਂਚਲ / ਕਿਸ਼ਾਨਗੰਜ। ਕਾਂਗ੍ਰੇਸ ਕੇ ਵਿਧਾਨਗੰਜ ਵਿਧਾਯਕ ਝਜਹਾਰਲੁ ਹੁਸੈਨ ਨੇ ਕੁਸ਼ਿ ਕੇ ਸਾਥ ਸਾਥ ਮਛਲੀ ਪਾਲਨ ਕੇ ਖੇਤਰ ਮੈਂ ਕਿਸ਼ਾਨਗੰਜ ਸ਼ਾਸਿਯੀ ਕੀ ਆਲਨਿਸਰ ਔਰ ਸਵਰੋਜਗਾਰ ਪਰਕ ਬਨਾਨੇ ਕੇ ਲਿਏ ਸੰਬਢ ਵਿਧਾਯਕ ਕੀ ਪਟਨਾ ਕੇ ਕਿਸ਼ਾਨਗੰਜ ਤਕ ਝਕਝੋਰਨੇ ਮੈਂ ਲਗ ਸਯੇ ਹੈਂ।

ਫ਼ਸੀ ਕ੍ਰਮ ਮੈਂ ਕਿਸ਼ਾਨਗੰਜ ਕੇ ਕਾਂਗ੍ਰੇਸ ਵਿਧਾਯਕ ਝਜਹਾਰਲੁ ਹੁਸੈਨ ਨੇ ਕਿਸ਼ਾਨਗੰਜ ਸਥਿਤ ਸਥਾਪਿਤ ਡਾੱ ਕਲਾਮ ਐਗਰੀਕਲਚਰ ਕਾਲਜ ਕੇ ਪ੍ਰਾਂਗਣ ਮੈਂ ਆਯੋਜਿਤ ਸੀਨ ਦਿਵਸੀਯ ਸੀਠੇ ਜਲ ਕੀ ਮਛਲੀ ਪਾਲਨ ਚਪਰੀਟ ਹੈਂਡਲਿੰਗ ਏਵ ਪ੍ਰਸੰਸਕਰਣ ਕਾਰਯਕ੍ਰਮ ਕ ਤੀਨ ਦਿਵਸੀਯ ਕ੍ਰੁ ਸਕ ਪ੍ਰਸ਼ਿਕਸ਼ਣ ਕੇ ਕਾਰਯਕ੍ਰਮ ਮੈਂ ਮਾਗ ਲਿਯਾ ਔਰ ਆਯੋਜਿ ਡਿਨ ਕਾਰਯਕ੍ਰਮ ਕਾ ਸਮਾਪਨ ਵਿਧਾਯਕ



ਝਜਹਾਰਲੁ ਹੁਸੈਨ ਨੇ ਅਪਨੇ ਹਾਥੀਂ ਇਸ ਪ੍ਰਸ਼ਿਕਸ਼ਣ ਕੇ ਦੌਰਾਨ ਕਿਸ਼ਾਨਗੰਜ ਜਿਲੇ ਕੇ ਕਿਸ਼ਾਨੀਂ ਕੀ ਮਛਲੀ ਪ੍ਰਸੰਸਕਰਣ ਵਿਧਾਯਕ ਮੈਂ ਕਿਸ਼ਾਨੀਂ ਕੀ ਸੀਠੇ ਜਲ ਕੀ ਮਛਲਿਯੀਂ ਕੀ ਜਾਲ ਕੇ ਪਕਾਠਨਾ,



ਮਛਲਿਯੀਂ ਕੀ ਪਕਾਠਨੇ ਕੇ ਸਾਦ ਅਚਠੇ ਟੰਗ ਕੇ ਰਕਬਾ, ਮਛਲਿਯੀਂ ਕਾ ਪੈਕੇਜਿੰਗ ਏਵ ਸੁਰਕਿਸ਼ਿਤ ਚਰਿਯਫਨ, ਸੁਕ੍ਰੀ ਮਛਲੀ, ਕਯੂਰਿੰਗ ਏਵ ਕਿਯੂਬੀਰ ਮਛਲੀ ਕਾ ਨਿਰਮਾਣ, ਮਛਲਿਯੀਂ ਕੇ ਵਿਮਿਨ ਮੂਲਯ ਕਚਿੱਟ ਚਲ੍ਯਾਕ ਕਾ ਨਿਰਮਾਣ ਏਵ ਮਲਯ ਮੂਲਯ ਕਚਿੱਟ ਚਲ੍ਯਾਕੀਂ ਕੀ ਬਾਜ਼ਾਰ ਮੈਂ ਅਚਠੇ ਟਾਮ ਪਰ ਕੇਚਨੇ ਕੀ ਕਲਾ ਕੇ ਸਾਕਥਿਤ ਵਿਥਯ ਪਰ ਪ੍ਰਸ਼ਿਕਸ਼ਣ ਦਿਯਾ ਸਯਾ। ਸਮਾਪਨ ਕਾਰਯਕ੍ਰਮ ਕੇ ਦੌਰਾਨ ਕਾਂਗ੍ਰੇਸ ਕੇ ਕਿਸ਼ਾਨਗੰਜ ਵਿਧਾਯਕ ਝਜਹਾਰਲੁ ਹੁਸੈਨ ਨੇ ਪ੍ਰਸ਼ਿਕਸ਼ਣ ਮੈਂ ਸ਼ਾਮਿਲ ਮਛਲੀ ਕੁਸ਼ਥੀਂ ਕੀ ਸਰਕਾਰ ਕੀ ਇਸ ਚਰਚੇ ਕੀ ਯੋਜਨਾਓਂ ਕੇ ਲਾਮ ਲੇਨੇ ਕੇ ਲਿਏ ਪ੍ਰੋਲ੍ਸਾਹਿਤ ਕੀਯਾ ਔਰ ਪ੍ਰਸ਼ਿਕਸ਼ਣ ਕਾਰਯਕ੍ਰਮ ਮੈਂ ਮਾਗੀਦਾਰੀ ਨਿਰਮਾਣੇ ਵਾਲੇ ਕੁਸ਼ਥੀਂ ਕੇ ਪ੍ਰਤਿ ਆਮਾਰ ਜਤਾਯਾ।

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ICAR-CIPHET organised webinar on Plant Based Dairy Analogues

LUDHIANA, November 26, 2021: An online webinar on the topic 'Plant Based Dairy Analogues: A Healthy Choice' was organized by ICAR- Central Institute of Post-Harvest Engineering & Technology, Ludhiana, a leading research institute in the country. The fourth webinar in 'National Webinar Series on CIPHET Post-Harvest Technology' was delivered by Dr. D. N. Vadev, Head, Transfer of Technology Division of the Institute.

Dr. Namraket Kohliwala, Director, ICAR-CIPHET said that plant-based milk analogues are the best alternative to be used in a 'vegan diet' and lactose intolerant population. He elaborated on the wide scope as well as the work conducted by ICAR-CIPHET in this area of food processing. Different training programmes offered by the Institute for entrepreneurs and farmers were also discussed by the Director.

Dr. D. N. Vadev, speaker of the webinar explained the detailed process and machinery requirements for the preparation of milk analogues from soyabean and groundnut. The technology has been adopted by more than 25 entrepreneurs and some are using the facility available at the Institute through Custom Hiring Service. 'The textural and sensory properties of products (Curd, Paneer, Tofu) prepared from plant-based milk analogues are acceptable to customers and 'has high demand in the market due to its nutritional advantages' said the speaker. All the products can be custom-made to suit the nutritional (Protein, and Fat content) requirement of the consumer.

The year-long series of virtual webinars is being organized under the guidance of Dr. Weelket, Kotwale, Director, ICAR-CIPHET, Ludhiana to commemorate 75 years of Independence during 25 Aug 2021 to 15 August 2022 with the theme 'Azadi Ka Amrit Mahotsav'. Under this series, one technology per month will be presented/demonstrated online to the stakeholders in the last week of every month as to August, 2022. The webinar was coordinated by Dr. Sandeep P. Davaage and Dr. N. Ganesan, associate of Transfer of Technology Division of the Institute. The fifth webinar of the series is on the topic 'Entrepreneurship through Mechanized Weaving' and will be delivered by Dr. Sandeep Mann on 23 December 2021.

फल वाले वृक्षों के रोगों पर करवाया वैबिनार

अबोहर, 8 दिसंबर (धर्मवीर) : कृषि विज्ञान केंद्र-सीफेट अबोहर द्वारा फल वृक्षों के कीड़े रोगों एवं बीमारियों पर वैबिनार आयोजित करवाया गया। इस अवसर पर प्रभारी सीफेट अबोहर डॉक्टर रमेश कुमार ने किसानों से इस वैबिनार का फायदा उठाने एवं अपने फल वृक्षों के प्रशिक्षण करने का आह्वान किया। राजेश कुमार एसीटीओ ने फल वृक्षों की बीमारियों के बारे में विस्तृत जानकारी दी एवं नियंत्रण के उपाय बताए। सीटीओ डॉक्टर विनोद सहारण ने फल मक्खी के क्षेत्रफल नियंत्रण व फल मक्खी ट्रैप पर विस्तृत जानकारी दी। पृथ्वीराज एसीटीओ सीफेट ने बाग के कीड़े मक्कोड़ों के उपाय एवं नियंत्रण की विस्तृत जानकारी दी। इस कार्यक्रम में लगभग 32 किसानों ने भाग लिया। अंत में राजेश कुमार एसीटीओ ने सभी किसानों का धन्यवाद किया।

दैनिक सवेरा Thu, 09 epaper

2 दिवसीय मछली एवं मुर्गी पालन कौशल प्रशिक्षण कार्यक्रम संपन्न



अबोहर (धर्मवीर) : कृषि विज्ञान केंद्र-सीफेट द्वारा गांव पंजलोसी में दो दिवसीय मुर्गी एवं मछली पालन पर कौशल प्रशिक्षण कार्यक्रम संपन्न हुआ। 24 नवंबर को मछली पालन हेतु प्रशिक्षण कार्यक्रम किया गया। इसमें प्रभोजित कौर मछली पालन प्रसार अधिकारी, कोकम कौर मछली पालन प्रसार अधिकारी ने किसानों को मछली पालन हेतु विस्तृत जानकारी दी। प्रभोजित कौर ने तालाब बनाने, प्रशिक्षण देने व ट्यूबवेल शरिफदर इत्यादि पर विस्तृत बताया। 1 हैक्टर पर के तालाब पर कुल खर्च 8.50 लाख इसमें से 40 प्रतिशत सबसिडी जरूरत के लिए एवं 60 प्रतिशत सबसिडी महत्वपूर्ण, अनुसूचित जाति के लिए उपलब्ध होगी। डॉक्टर कौर ने झींगा पालन, बायोसेक्स तकनीक, रिसकुलेटरी एक्वा कल्चर, फीडमिल सत्र लगाने इत्यादि पर सबसिडी के बारे में बताया। तालाब में बीज डालना, मछली के भोजन, निकालने तथा बेचने की विस्तृत जानकारी दी। डॉ. रमेश कुमार, प्रभारी सीफेट अबोहर ने परम्परागत खेती को छोड़कर मछली पालन हेतु प्रशिक्षण लेकर युवा बनाकर मछली पालन करने हेतु किसानों को प्रोत्साहित किया। इस अवसर पर 50 किसानों ने भाग लिया।

दैनिक सवेरा Thu, 25 November 2021 epaper.dainiksaveratimes.org/c/e

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Home / Punjab / Ludhiana / Orientation programme: Opportunities in agriculture sector for entrepreneurship and employment

Ludhiana

Orientation programme: Opportunities in agriculture sector for entrepreneurship and employment

cityairnews Nov 26, 2021 08:58

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ICAR - CENTRAL INSTITUTE OF POST HARVEST ENGINEERING & TECHNOLOGY

Ludhiana, November 26, 2021: In the series of events organized under "Azadi Ka Amrit Mahotsav", ICAR-Central Institute of Post-Harvest Engineering and Technology, Ludhiana conducted an orientation programme on 26 November, 2021 under the theme "Opportunities in agriculture sector for entrepreneurship and employment" for school children of Partap Public School, Ludhiana. The programmes started with showing of a video about the various activities being conducted by the Institute. Then children were apprised about various facilities available at ICAR-CIPHET for entrepreneurship development. Demonstration of facilities like pulse and spices milling in the Agro processing centre and pasta making was given. The students also visited the Agro Processing Centre and various other laboratories of the institute and got exposure on various activities and instruments used in post-harvest technology. The program was co-ordinated by Dr. R. C. Kasana, Prindpal Scientist, Dr: Deepika Goswami, Scientist and Dr. Leena Kumari, Scientist. Dr. S. K. Tyagi, I/c Director, ICAR-CIPHET thanked all the participants and highlighted the scope of agro-processing for entrepreneurship development. About 65 participants attended this program.

कृषि अधिकारियों के लिए टिड्डी नियंत्रण पर प्रशिक्षण संपन्न

अबोहर, 17 सितंबर (कथूरिया) : कृषि विज्ञान केंद्र व सीफेट अबोहर ने कृषि अधिकारियों के लिए एक दिवसीय प्रशिक्षण कार्यक्रम संपन्न करवाया। इस अवसर पर पृथ्वीराज एसीटीओ ने सभी का स्वागत किया। डॉ. रमेश कुमार प्रभारी सीफेट ने



सीफेट प्रभारी ऑनलाइन मीटिंग करते हुए

प्रशिक्षण सम्बन्धी एवं सीफेट गतिविधियों के बारे में बताया। डॉक्टर पंकज एपीपीओ नियंत्रण कक्ष जोधपुर ने टिड्डी आगमन प्रसार एवं नियंत्रण जीवन चक्र प्रजनन इत्यादि के बारे में विस्तृत जानकारी दी। धन्ने सिंह पूनिया पीपीओ टिड्डी नियंत्रण केंद्र बीकानेर ने देश में टिड्डी नियंत्रण नैटवर्क एवं आगमन सम्बन्धी जानकारी दी। चंद्रशेखर शर्मा एपीपीओ नियंत्रण केंद्र फरीदाबाद ने टिड्डी नियंत्रण में रखी जाने वाली सावधानियों के बारे में बताया। इस ऑनलाइन प्रशिक्षण में लगभग 22 कृषि प्रसार अधिकारियों ने भाग लिया।

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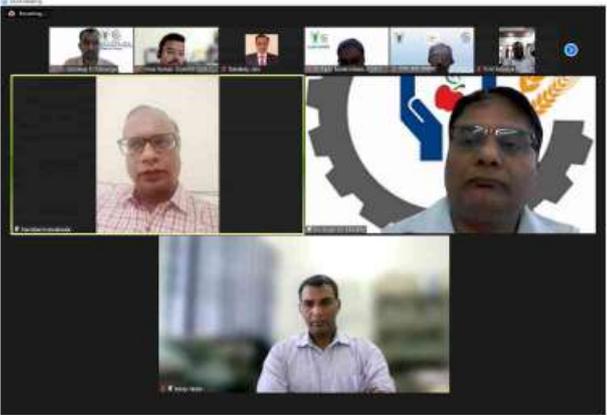
HOME NATION PUNJAB BUSINESS EDUCATION SPORTS LIFESTYLE ENTERTAINMENT

Home / Punjab / Ludhiana / ICAR-CIPHET organised webinar on 'Protected Agriculture-- The Next Generation Agriculture'

ICAR-CIPHET organised webinar on 'Protected Agriculture-- The Next Generation Agriculture'

cityairnews Oct 26, 2021 09:23

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Ludhiana, October 26, 2021: ICAR- Central Institute of Post-Harvest Engineering & Technology, Ludhiana is organising a 'National Webinar Series on CIPHET-Post-harvest Technologies' virtually to commemorate 75 years of Independence during 15 Aug 2021-15 August 2022 with the theme 'Azadi Ka Amrit Mahaotsav (आज़ादी का अमृत महोत्सव)'. A webinar, third in the series, on the topic 'Protected Agriculture - The Next Generation Agriculture' was organised today (26 October 2021).

Dr. Nachiket Kotwaliwale, Director, ICAR-CIPHET emphasised on need of this technological advancement in wake of climate change and abrupt behaviour of the natural forces. Dr. R. K. Singh, Project Coordinator, AICRP on Plastic Engineering in Agriculture Structure and Environment Management (PEASEM) delivered the lecture. He aptly highlighted recent developments in the area of protected cultivation and accentuated its role in sustaining the agricultural production to cope up with ever-increasing food demand. About 80 participants including experts in the field, scientist from different institutes, AICRP centers, KVVs, farmers, entrepreneurs, and students joined the session and actively discussed pertaining issues. Under the guidance of Dr. Nachiket Kotwaliwale, the Director, ICAR-CIPHET, Ludhiana, this webinar series is being coordinated by Dr. D.N. Yadav, Pr. Scientist and Mr. Vikas Kumar and Dr. Sandeep Dawange, scientists of Transfer of Technology Division of the institute. One technology per month will be presented/demonstrated online to the stakeholders in the last week of every month up to August, 2022. The Fourth webinar of the series is on topic 'Plant Based Dairy Analogues: A Healthy Choice' and will be delivered by Dr. D. N. Yadav on 29 November 2021.

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Home / Punjab / Ludhiana / ICAR-CIPHET celebrated World Soil Day

ICAR-CIPHET celebrated World Soil Day

cityairnews Dec 5, 2021 09:02

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Ludhiana, December 5, 2021: ICAR-Central Institute of Post-Harvest Engineering and Technology, Ludhiana celebrated World Soil Day on 5, December, 2021. Soil is one of the important components of ecosystem. It is often called production base and soil for sustaining life on the earth plant. This day signifies the importance of soil in our ecosystem and the critical impacts of soil degradation. A series of lectures were delivered by experts on maintaining health and enhancing productivity of soil. Dr Angrej Singh, Associate Professor, COAET, PAU, Ludhiana enlightened the participants about the importance of managing soil organic matter to boost soil productivity. Dr Rakesh Sharda, PI, AICRP on PEASEM, PAU highlighted that nutritional security also depends on the health of the soil. Healthy soil will lead to healthy plants, healthy food and in turn to healthy humans. Dr K G Singh, Ex Head, Department of SWCE, COAET, PAU, Ludhiana said only 9 per cent of the total land is available for utilization by humans for cultivation as well as living. Dr R K Singh, PC, AICRP on PEASEM, highlighted that use of more chemical fertilizer will leads to increase in the salt (Sodium) level in the soil which leads to soil salination. Therefore, farmers should be encouraged to incorporate more organic matter in their field to maintain the health of the soil.

About 60 participants which include staffs from ICAR-CIPHET, students from SKAUST-K, Srinagar and BSKKV, Dapoli attended the programme.

रबी की फसलों में समन्वित पोषण प्रबन्धन पर ऑनलाइन प्रशिक्षण

अबोहर, (धर्मवीर) : कृषि विज्ञान केंद्र सीफेट अबोहर के प्रभारी डा. रमेश कुमार के निर्देशन में शुक्रवार को राजेश कुमार सहायक मुख्य तकनीकी अधिकारी द्वारा रबी की फसलों में समन्वित पोषण प्रबन्धन तकनीकी पर ऑनलाइन प्रशिक्षण कार्यक्रम का आयोजन किया गया। इस कार्यक्रम में 19 किसानों व अधिकारियों ने भाग लेकर कार्यक्रम को सफल बनाया। इस कार्यक्रम में कृषि विज्ञान केंद्र के कार्यवाहक प्रभारी डाक्टर पंकज कुमार कनौजिया द्वारा प्रशिक्षण कार्यक्रम में भाग लेने वाले किसानों का स्वागत करते हुए इस कार्यक्रम से अधिक से अधिक लाभ प्राप्त करने के लिए प्रेरित किया तथा प्रशिक्षण कार्यक्रम की विधिपूर्वक शुरूआत की। राजेश कुमार ने फसल चक्र व इसकी आवश्यकता के महत्व पर प्रकाश डालते हुए किसानों को विभिन्न तरह के फसल चक्रों के बारे में जानकारी दी। पृथ्वीराज सहायक मुख्य तकनीकी अधिकारी द्वारा रबी फसलों के बारे में जानकारी देते हुए इनके पोषण प्रबन्धन के सम्बन्ध में की गई सिफारिशों के बारे में किसानों को अवगत करवाया। संतुलित पोषण प्रबन्धन पर ध्यान देने के लिए किसानों को प्रेरित किया। झफको के डाक्टर गुरवीर सिंह ने फसलों के पोषण पर नई विकसित तकनीकों के बारे में जानकारी देते हुए मृदा में पोषक तत्वों के आपसी व्यवहार के बारे में विस्तृत जानकारी दी। इस कार्यक्रम के अंत में पृथ्वीराज द्वारा सभी प्रतिभागियों को धन्यवाद ज्ञापित किया गया।

दैनिक सवेरा Sat, 13 November 2021
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कृषि विज्ञान केंद्र सीफेट द्वारा 3 दिवसीय प्रशिक्षण कार्यक्रम का आयोजन

अबोहर, (कथूरिया) : कृषि विज्ञान केंद्र-सीफेट अबोहर द्वारा फल प्रसंस्करण तकनीकी पर तीन दिवसीय प्रशिक्षण कार्यक्रम का आयोजन 16 से 18 नवंबर तक किया गया जिसमें कुल 41 प्रतिभागियों ने भाग लेकर कार्यक्रम को सफल बनाया। इस कार्यक्रम का संचालन डा. रमेश कुमार प्रभारी कृषि विज्ञान केंद्र-सीफेट अबोहर द्वारा किया गया। इस कार्यक्रम में फलों के विभिन्न उत्पाद जैम, जेली, शरबत, सक्वेश, टूटी फ्रूटी इत्यादि बनाने की प्रायोगिक जानकारी दी गयी। जिसमें प्रतिभागियों ने बहुत रुचि दिखाई। उत्पाद बनाने के लिए फलों का चयन तथा पूरी प्रक्रिया विधि पूर्वक समझाई गई। ताकि कटाई उपरांत होने वाले नुकसान को मुनाफे में बदला जा सके और ग्रामीण महिलाएं घर पर फल प्रसंस्करण पर अपना रोजगार खड़ा कर सकें। इस कार्यक्रम में प्रतिभागियों को सर्टिफिकेट भी वितरित किए गए।



सीफेट प्रभारी डा. रमेश कुमार प्रतिभागी को सर्टिफिकेट वितरित करते।

दैनिक सवेरा Fri, 19 November 2021
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HOME NATION + PUNJAB + BUSINESS + EDUCATION + SPORTS + LIFESTYLE + ENTERTAINMENT

Home / Punjab / Ludhiana / ICAR-CIPHET gave licensing on microbial method for protein isolates and dairy analogues from groundnut to Maharashtra based firm

Ludhiana

ICAR-CIPHET gave licensing on microbial method for protein isolates and dairy analogues from groundnut to Maharashtra based firm

cityairnews Nov 20, 2021 08:14

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Ludhiana, November 20, 2021: ICAR-CIPHET is committed and working consistently to meet the food needs of the nation by developing and promoting health food products. Oilseeds are leading suppliers of superior quality and specialty vegetable oils to nutritional products, natural food and premium snack food worldwide. However ICAR-CIPHET Ludhiana has developed microbial method for protein isolates and dairy analogues from groundnuts, which are critically important for individuals on diets, people who have to enhance their overall health, as well as vegetarians and vegans around the world. Maharashtra based firm M/s Sanyog Health Foods Pvt Ltd approached CIPHET for these potential technologies. Dr. D.N. Yadav, Pr. Inventor & Pr. Scientist FG&OP Division has imparted hands on training to entrepreneur from 16-20 November 2021. Dr. Renu Balakrishnan I/C ITMU coordinated this training & licensing. Dr. Nachiket Kotwaliwale, Director, ICAR-CIPHET Ludhiana awarded certificate on successful completion of training to the entrepreneur.

प्राकृतिक कृषि एवं स्वच्छता पखवाड़े का आयोजन

अबोहर, 16 दिसंबर (धर्मवीर) : कृषि विज्ञान केंद्र-सीफेट द्वारा स्वच्छता पखवाड़ा 16 से 31 दिसंबर का आरंभ किया गया। इस अवसर पर उपस्थित सभी किसानों एवं अधिकारियों ने स्वच्छता रखने की शपथ ली। इस पखवाड़े में पूरे 15 दिन गावों में स्वच्छता संबंधी जागरूकता लाने के लिए विभिन्न तरह के कार्यक्रम आयोजित किए जाएंगे। इस कार्यक्रम में सीफेट के प्रभारी डा. रमेश कुमार ने सभी किसानों का स्वागत किया एवं स्वच्छता हेतु शपथ दिलवाई। आज प्राकृतिक कृषि पर प्रधानमंत्री द्वारा सभी देशवासियों को संबोधित करते हुए एक ऑनलाइन कार्यक्रम करवाया गया। जिसका सीधा प्रसारण किसानों को कृषि विज्ञान केंद्र पर दिखाया गया, उन्होंने प्राकृतिक कृषि को अपनाने का आह्वान किया एवं मिट्टी सुधार हेतु प्राकृतिक खेती पर बल दिया। इस अवसर पर लगभग 60 किसानों एवं कर्मचारियों ने भाग लेकर कार्यक्रम को सफल बनाया।

दैनिक सवेरा Fri, 1
epaper

मुर्गी व मछली पालन पर 2 दिवसीय कौशल प्रशिक्षण कार्यक्रम



सीफेट अधिकारी जानकारी देते हुए व भाग लेते गांववासी।

अबोहर, (धर्मवीर) : गांव पंजकोसी में दो दिवसीय मुर्गी व मछली पालन पर कौशल प्रशिक्षण कार्यक्रम करवाया गया। कार्यक्रम के पहले दिन मुर्गी पालन व बैकयार्ड पोल्ट्री के बारे में डॉक्टर लज्जत सिंह पशु विशेषज्ञ ने विस्तृत जानकारी दी। डा. सिंह ने बैकयार्ड पोल्ट्री के फायदे बताए। अंडों से प्राप्त होने वाली प्रोटीन का महत्व बताते हुए घर में मुर्गी पालन एवं व्यापारी मुर्गी पालन के खाने एवं मुर्गी की किस्मों की जानकारी दी। डॉक्टर मन्दीप सिंह डेट ऑफिसर पंजकोसी ने किसानों से सड़क के बचाव व सड़कें गहोने वाले रोगों से बचाव की जानकारी दी। उन्नत नस्ल एवं अन्य बीमारियों से बचाव हेतु टीकाकरण के लिए भी किसानों को जानकारी दी। डॉक्टर रमेश कुमार प्रभारी सीफेट अबोहर एवं कृषि विज्ञान केंद्र अबोहर ने किसानों से सीफेट में फल प्रसारण पर विस्तृत जानकारी दी। कुलदीप सिंह व बादराम शर्मा पनसीआई अबोहर ने सहकारिता का महत्व बताते हुए ग्रुप बनकर घंघा करने की जानकारी दी। बुधवार को मछली पालन का प्रशिक्षण करवाने का किसानों को बताया। इस अवसर पर लगभग 60 किसानों ने भाग लिया।

दैनिक सवेरा Wed, 24 November 2021
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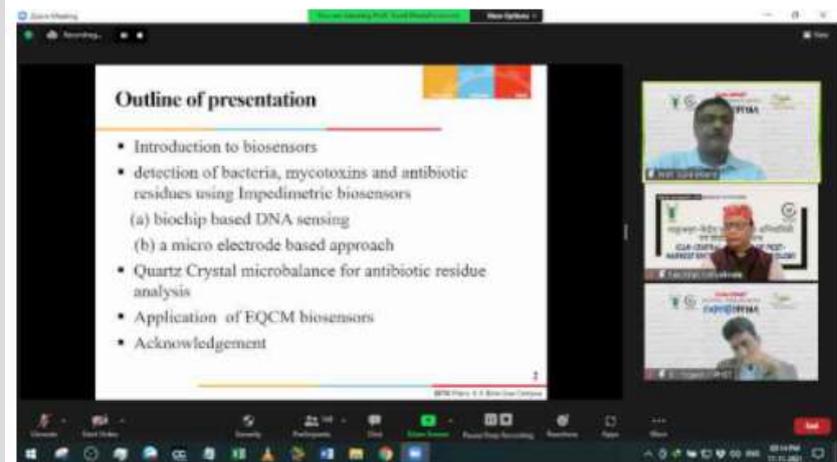
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Ludhiana

ICAR-CIPHET organized National Webinar Series 'Expertopedia'

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Ludhiana, November 17, 2021: ICAR-Central Institute of Post-Harvest Engineering and Technology, Ludhiana organized National Webinar Series 'Expertopedia' today to celebrate 75 years of the Indian Independence "Azadi ka Amrit Mahotsav" and the event consisted of two expert lectures. The first one was on Development of Biosensors for Quality Analysis of Livestock Products by Prof. Sunil Bhand, Professor, Dept of Chemistry & Dean, Sponsored Research & Consultancy, BITS Pilani, Goa Campus. He enlightened the participants with the process of development of biosensors and their specific application for detection of microorganism and mycotoxins. In the second lecture, Dr Yogesh Kumar, Senior Scientist, ICAR-CIPHET, highlighted that about 71 per cent of the meat available at household level is adulterated and the need for identification of adulterants. He presented an overview of the recent development in rapid point-of-care devices for quality evaluation of meat products like LFA, LAMP, PCR based technologies. He also shared about the work being carried out in ICAR-CIPHET for rapid detection of adulteration by multiple meat species. Dr. Nachiket Kotwailivale, Director, ICAR-CIPHET and Convener of the webinar, thanked all the participants and experts for active participation and anticipated that these technologies be used for rapid quality assurance of food commodities/ processed foods. The session was coordinated by Dr Yogesh Kumar and Dr Renu Balakrishnan. About 160 participants attended the webinar series.