



*Guru Angad Dev Veterinary & Animal Sciences  
University, Ludhiana (Punjab)*

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**July - September 2019 (3)**

**From the Desk of the Vice-Chancellor**



The livestock sector has pivotal role in the sustainable economic development of agrarian India. The scientific animal husbandry has opened new vistas of employment and entrepreneurship for the youth. Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana is constantly disseminating the scientific know-how to the livestock farmers for increasing their income and uplifting socio-economic status by advocating scientific production and management practices. The University organized Pashu Palan Mela during September 2019 under the slogan 'Suchaja Pashu Palan Apnao, Sehatmand ate Khushaal Samaj Banano' to achieve these pursuits. I earnestly wish that the farmers of Punjab would adopt commercial livestock farming as a step for furthering diversification within the livestock sector for sustenance of economy. I thank the livestock farmers of the state for partaking faith in the University and following the advisory of the University expert(s) on various scientific practices of livestock farming.

I congratulate the faculty, students and non-teaching staff of the University for adding a new feather to the success stories of the institution by earning the prestigious Institutional Development Plan (IDP) grant worth Rs 30 crore from the Indian Council of Agricultural Research (ICAR) under the National Agricultural Higher Education Project (NAHEP), a World Bank aided project. The IDP project will help the creation of state-of-the-art teaching and training facilities at the University and will further increase the collaboration vis-à-vis potentiality of the University at international arena.

Besides academic, scientific and extension activities, the University pays considerable attention to altruistic values. To mark the 550th birth anniversary of Guru Nanak Dev Ji, a unit of Guru Gobind Singh Study Circle was established in the University. I hope, the Study Circle will serve as a platform to boost the moral and ethical values among students and inculcate philanthropic values, in them.

I congratulate the passing out Veterinary Graduates of College of Veterinary Science and wish them to holistically follow the veterinary ethics in practice for benefitting the speechless creatures and society at large.

**(A. S. Nanda)  
Vice-Chancellor**

## Regional Agriculture & Pashu Palan Mela

The Hon'ble Chief Minister of Punjab Capt. Amrinder Singh inaugurated the three days Regional Agriculture & Pashu Palan Mela at Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana on 21<sup>st</sup> September 2019. S. Sukhjinder Singh Randhawa, Cabinet Minister, Cooperation and Jail, S. Ravneet Singh Bittu, Member Parliament, Ludhiana also graced the occasion. Sh. Suresh Kumar, Chief Parliamentary Secretary to the Chief Minister, Sh. Karan Avtar Singh, Chief Secretary and Sh. Viswajeet Khanna, Additional Chief Secretary also accompanied the Hon'ble Chief Minister.



Hon'ble Chief Minister of Punjab, S. Amrinder Singh inaugurating the Mela

The Hon'ble Chief Minister visited the various stalls at Mela and lauded the research contributions of GADVASU for uplifting the economic status of the livestock farmers of Punjab. He also hailed the research undertaken on shrimp farming. The Hon'ble Chief Minister showed keen interest in various livestock species and inquired about their production and management practices. Sexed semen should be given priority to give desired impetus to the livestock sector.



Hon'ble Chief Minister wading through the Mela stalls

Dr. Amarjit Singh Nanda, Vice-Chancellor, GADVASU said that the University in scientific and planned manner is promoting livestock sector and therefore the slogan of Mela is 'Suchaja Pashu Palan Apnao, Sehatmand ate Khushaal Samaj Banano' which means 'Prosperity and Health Through Better Livestock Production'. Dr. Nanda urged the farmers to adopt profitable ventures of fish farming, piggery, goatry and now a days' commercialized poultry farming. He also emphasized on the value addition of livestock products for better livelihood.

The Ministry of Agriculture and Farmers Welfare, Government of India through its Department of Agriculture, Cooperation and Farmers Welfare allocated Northern region Mela to GADVASU. The Mela attracted farmers, universities/ institutions, private firms, Line and Development Departments and other stakeholders from the Northern States and Union Territories. Ten Institutes/State Agricultural and Veterinary universities exhibited their research products and activities and shared their technologies developed. Various departments/ colleges of the GADVASU put up stalls in the Mela to disseminate the valuable information and recommendations to the farmers.



Hon'ble Chief Minister given a memorabilia

The excellent germplasm of the cows, buffaloes, goats, pigs and poultry were demonstrated to the livestock farmers. The experts delivered talks on various aspects of livestock, poultry and fish farming and discussed the mechanism and procedures to overcome the problems faced by them in livestock farming. The milk testing kit, Mastitis Diagnosis kit were also provided

to the farmers at reasonable prices.

Farmers showed keen interest in various stalls and were highly enthusiastic to be trained for the development of milk and meat products. Farmers showed great interest in university publications, particularly to subscribe the monthly magazine 'Vigyanak Pashu Palan' for updation about recent developments in livestock farming. The leading veterinary pharmaceuticals companies, dairy and livestock related equipments and animal feed factories put their stalls in exhibition. The department(s) of Animal Husbandry, Dairy Development and Fisheries of Punjab State put up stalls in the Mela for demonstrating their activities. Different livestock associations established under the guidance of Veterinary University also put up their stalls for enrolling the members. The Pashu Palan Mela concluded with a new hope for a brighter future in the livestock rearing.



Glimpses of Pashu Palan Mela

### University earns Rs. 30 cr. IDP project

GADVASU bagged one of the most prestigious Institutional Development Plan (IDP) grant worth Rs 30 crore from the Indian Council of Agricultural Research (ICAR) under the National Agricultural Higher Education Project (NAHEP), a World Bank aided project. The project will lead to creation of state-of-the-art teaching and training facilities at the university. This will also focus on the technical development of teaching faculty. Beginning from August 2019, this project of two years duration will rise the International arena through exchange of students, scientists and of technologies with leading professional institutions in the World. With fiscal assistance of the IDP, GADVASU aims at filling existing gaps through capacity building and training of both students and faculty at international platforms, updation of infrastructure, networking with industries and universities of national and international repute, promotion of skill development, seeding innovation amongst young minds, increasing employability and entrepreneurial outlook and adopting a revenue generation model for long run sustainability.

This project is one of its own kinds that will ensure international exposure even to undergraduate students and will help them in polishing their academic as well as soft skills and will bring out their hidden talents. Further, the farming community will get benefitted through the availability of updated technologies and latest knowhow. The IDP is the culmination of so many years of hardwork, foresightedness, academic wisdom and the national and international linkages developed by the GADVASU under the astute leadership of Dr A. S. Nanda, Vice-Chancellor, GADVASU. The project will be operational under leadership of Dr Parkash Singh Brar, Dean, College of Veterinary Science and Principal Investigator of the project.



Dr P. S. Brar,  
Dean, COVS

### Live Webcast of the NADCP

KVK, Booh, Tarn Taran organized a Live Webcast of National Animal Disease Control Programme (NADCP) for FMD and Brucellosis and National Artificial Insemination Programme (NAIP) in its campus. The programme was launched by Prime Minister of India from Mathura, Uttar Pradesh.

## Awards/Recognitions/Fellowships

### Professor and researcher awarded at the World Research Council

Dr Hari Mohan Saxena, Professor of Immunology at the Department of Veterinary Microbiology, GADVASU was conferred the International Distinguished Scientist Award at the World Research Council (WRC) at Tiruchirapalli. The coveted award was presented to Dr. Saxena by the International Journal for Research Under Literal Access (IJRULA) jointly with the World Research Council in recognition of his original research contributions in the fields of diagnosis and control of infectious diseases. RULA Awards is accredited by the World Research Council and the United Medical Council (UMC).



Dr Saxena bestowed with award

Dr Gurjot Kaur Mavi was conferred the “International Best Researcher Award in Animal Genetics and Breeding” at the World Research Council for her Ph.D. based research work entitled “Characterization of Fertility Associated Sperm Proteins in Aseel and Rhode Island Red Chicken Breeds”.



Dr Mavi awarded the Best Researcher Award

### Staff member reaps award at national conference on Libraries

Dhiraj Kumar working as Junior Library Assistant in the University Library participated in the 6<sup>th</sup> Chandigarh Librarians' Association (CLA) National Conference and was awarded the best poster award for his poster presentation entitled “Learning Management Systems: A Way to Model Interactive Libraries”. This innovative concept of use of Information and Communication Technology in Libraries was appreciated by one and all at the conference. He was presented a certificate in recognition thereof.



Sh. Dhiraj Kumar

### Indo-Australian Fellowship

Dr Harsh Panwar, Assistant Professor in Dairy Microbiology at College of Dairy Science and Technology completed six months of Indo-Australian Career Boosting Gold Fellowship 2018 awarded to him by the Department of Biotechnology, Government of India for implementation of the project entitled ‘*Bioresourced Dynamic Antimicrobial Peptides (DAMPs) for Combating Antimicrobial Resistance*’ at the University of South Australia, Adelaide, Australia. Dr Harsh Panwar was one amongst the seven recipients of this prestigious fellowship at national level.



Indo-Australian Fellowship for Dairy microbiologist

The developed peptide molecules will be stable, safe, cost-effective, display sub- $\mu$ M activity against both Gram positive and Gram negative bacteria, and be free from resistance acquisition by drug resistant pathogens which can help in addressing the global burden of antimicrobial resistance.

### Public Private Partnership-MOU

GADVASU inked a Memorandum of Understanding (MoU) with Namdhari Food and Dairy Industries, Ludhiana for transfer of technology of Low and Medium Fat Fruit Ice-cream (Sugar Free) and High Protein Blackcurrant Fruit Lassi (Sugar Free) for the benefit of health conscious consumers. The MoU was signed by Dr J.P.S. Gill, Director of Research and Satnam Singh of Namdhari Food and Dairy Industries, Ludhiana in the presence of Dr A S Nanda, Vice Chancellor, and officers of the University. The developed technologies fulfill the consumers' expectations towards healthy dairy products through this MoU.



MOU with Namdhari Food & Dairy Industries, Ludhiana

### Tree plantation drive dedicated to the 550th Parkash Purb of Guru Nanak Dev Ji

Landscaping wing of GADVASU organized a tree plantation drive in campus dedicated to the 550<sup>th</sup> Parkash Purb of Guru Nanak Dev Ji. A total of 800 plants viz. trees, fruit trees and shrubs were planted in different areas of the University campus. Dr A. S. Nanda, Vice Chancellor, GADVASU inaugurated the plantation drive and highlighted the importance of planting trees to protect environment.



Tree plantation to mark the 550th birth anniversary of Guru Nanak Dev Ji

University officers/ faculty/ students participated enthusiastically in the plantation work. Dr. Satyavan Rampal, Director Students Welfare congratulated the team of landscape wing for tree plantation drive.

### Inception of Dairy Technocrats Alumni Association at the University

The alumni of College of Dairy Science & Technology, GADVASU formed an Alumni Association. In this regard, a get-together of first three pass out batches of the College was organized. The faculty of the College was also invited for this rendezvous. Former dean of the college Dr S.P.S. Sangha graced the occasion along with founder faculty members of the college. An advisory committee of the Alumni Association was also formed.



Alma Mater of Dairy Science & Technology College

### Independence Day fervours at University

GADVASU celebrated the 73<sup>rd</sup> Independence Day with great enthusiasm. Dr. A.S. Nanda, Vice-Chancellor, unfurled the National Flag. Dr. Nanda, firstly paid rich tributes to all those who fought for country's freedom and said that we all must remember and salute them.



Group photo with R&VS NCC cadets

An impressive musical and choreographed function was organized by students. The celebration was attended by Officers of the University, Heads of Departments, faculty, staff and students.

## Trainings/ Workshops

### Hygienic pork production and value addition

Department of Livestock Products Technology organized a five days training programme on “**Hygienic pork Production and value addition for entrepreneurship development**” for the pig farmers/budding entrepreneurs. A total of 36 participants attended the training programme and got benefitted. The participants were imparted training on selection of pigs, hygienic slaughtering and dressing operations, development and packaging of pork pickle, sausages, nuggets, koftas etc. The experts also discussed about meat quality standards and FSSAI guidelines. The participants visited Modern Pig slaughter unit, Chandigarh to have better practical exposure. Dr Harish Verma, Director Extension Education distributed certificates to the participants on successful completion of the training.



Motivating for pig entrepreneurship in Punjab

### Training on milk and meat production

Department of Animal Nutrition, College of Veterinary Science organized a three days training on ‘**Buffalo farming for milk and meat production**’ under RKVY for SC/ST farmers of Punjab. Twenty dairy farmers participated in the training oriented towards balanced feeding of buffaloes all around the year using locally available feed ingredients. The participants were informed about the role of mineral mixture, urea molasses mineral block, and bypass nutrients in animal nutrition. Conservation of fodders (Silage and hay) was also demonstrated, so as to make the fodder available all around the year.

### Training on Shrimp Farming

GADVASU organized two days training programme on ‘**Best Management Practices (BMPs) for Shrimp Farming**’ to acquaint the

aspiring stakeholders and shrimp farmers about BMPs to produce export quality shrimp for long term sustainability of shrimp farming industry in the State. A total of 38 participants were imparted technical know-how on various aspects of van-namei shrimp farming viz. pond construction, pond preparation, bio-security measures, BMPs in respect to seed source/quality, water quality management, feeding management, health management and processing/value addition, the importance of bio-security and health management in producing pathogen and chemical free export quality shrimp.



Training for boosting shrimp farming

An exposure visit to shrimp farms in Mansa was arranged for practical experience. Dr K.S. Sandhu Dean, College of Fisheries advised the farmers to follow scientific recommendations and encouraged the farmers to be in touch with experts for technical backup for optimised utilization of their saline resources for socio-economic gains through aquaculture.

### Training on pig farming

GADVASU organized a one week training programme on pig farming under RKVY for Schedule Caste farmers as a viable means of self-employment and nutritional security. A total of 37 participants attended the training programme.



Training for better pig management practice(s)

The trainees were imparted information on breeds, breeding, management, shed design, weather management, vaccination protocols, diseases & their prevention, value addition of pork, economics etc. Practical training on handling of pig, measuring temperature, signs of healthy animals was also provided. The university has also developed a mobile apps on Pig farming in Punjabi language which can be downloaded from Google play store as a ready reckoner source of knowledge on this sector.

### Training on “Value Addition of Milk”

A five-day training course on ‘Value addition of milk’ was organized by College of Dairy Science and Technology, GADVASU. A total of 16 trainees including 3 women farmers underwent training course and got benefitted. Dr. H K Verma, Director Extension Education, was the Chief Guest of valedictory. Practical training regarding manufacturing of seven milk products viz. Milk cake, Paneer, Whey drink, Flavoured dahi, Lassi, Mozzarella cheese and sterilized flavoured milk was imparted. The training also covered the microbiological, chemical and economical aspects for proper handling of milk and milk products.



Skill development on value addition of milk

### Training programme on Goat farming

Department of Veterinary and Animal Husbandry Extension Education, GADVASU organized one week training programme on Goat Farming for upliftment of small and marginal farmers by running goatry as an enterprise on commercial level. A total of 38 trainees participated in the training programme. The participants were provided theoretical and practical know-how on various aspects of goat farming including breeds, breeding, management, shed design, weather management, vaccination protocols, diseases & their prevention, value addition of meat and economics of goat farming etc.

### Training on 'Clean Meat Production'

Department of Livestock Products Technology (LPT) organized a five days practical training programme on “**Clean Meat Production and By-products Utilization for revenue generation and environment protection**” for the butchers/budding entrepreneurs/ floor level workers of meat industry under RKVY for the benefits of Schedule caste/Schedule Tribes. A total of 22 participants including butchers, meat shop owners and small entrepreneurs were imparted training on the selection of healthy food animals, painless slaughtering, and hygienic meat handling methods, personal hygiene, disposal and utilization of byproducts. The experts discussed about meat quality standards and FSSAI guidelines for setting up a meat shop. The participants visited Modern Poultry Processing Plant to have better practical exposure. Dr Harish Verma, Director Extension Education distributed “Hygiene kit” (gum shoes, SS meat cutting knife, apron, gloves, mouth and head gear etc.) to the participants.



Strong advocacy for clean meat production

### Workshop on Small animal anesthesia techniques

Department of Veterinary Surgery and Radiology, College of Veterinary Science conducted a 3 days workshop on ‘Small animal anesthesia techniques’ for the Veterinarians of Small Animal Clinician’s Association (SACA), Chandigarh. The practical demonstrations and hands on training on various aspects of pre-anesthetic evaluation and pre-anesthesia medication, induction and its maintenance using inhalation anesthesia were provided. The participants were also demonstrated intraoperative monitoring of anesthetized patient, anesthetic emergency and its management, anesthesia of cats and exotic animals.



Hands on training on safe use of anesthetics

### Workshop on feed quality

A two day workshop on 'Lab Forum India' focusing on feed quality parameters and their testing using latest technology was conducted by the Department of Animal Nutrition, College of Veterinary Science in collaboration with FOSS India under the umbrella of 'Project Monitoring Unit- DBT-Canine Research Centre (Nutritional and Processing Interventions for Developing Pet Foods).



Tips on feed testing

A total of 52 participants from different institutions attended the workshop. The workshop module took into its ambit feed quality to fully exploit the genetic potential of animals, nutritive value of various feed stuffs, feed adulterants like urea and nitrate, parameters of feed quality, their level and testing procedure for estimation of aflatoxin which is harmful for both animals and human beings. The importance of moisture in feed and feed ingredients which is important for storage was also demonstrated to the participants. Dr J.P.S. Gill, Director Research, the Chief Guest of the programme, highlighted the importance of quality feed in today's scenario both for human as well for livestock and

emphasized that for quality checking be calibrated, precise and reliable quick instruments are required. Mr Maria Wickman and Mr Soren Damgaard, Product Managers, FOSS demonstrated the functioning of various equipment to the delegates.

### Training on fish farming

College of Fisheries, GADVASU organized 5 days training programme on 'Fish Farming'. Twenty seven aspiring youth, women and entrepreneurs attended the training and got benefitted. The training programme was organized to empower unemployed youth with self-employment skills and update the scientific skills of the fish farmers with new technologies for maintaining sustainably optimized production levels. The trainees were provided hands-on training from construction of pond to preparation, stocking and management of pond till harvesting and marketing. Demonstration-cum-practical sessions were organized for seed handling, stocking, water quality management, feed formulation and manufacturing, health management practices and disease diagnosis and treatment with respect to different species like carps, pangas catfish and shrimps. Training in fish processing for preservation and value addition was also given. The trainees were updated about ongoing promotional schemes of the State for providing startup financial assistance for fish, shrimp and integrated fish farming. Visit of trainees to Ludhiana fish market was organized for providing insights into fish marketing. Dr. Kulbir Singh Sandhu, Dean, College of Fisheries said that in view of development of shrimp farming in south west salt affected districts of the State, Punjab is moving very fast towards 'Blue Revolution' plateau.

### Training on fish rearing and management

Department of Aquaculture, College of Fisheries, GADVASU, conducted training under Skill training of Rural Youth (STRY) on 'Fish Rearing and Management' as technical collaborator with PAMETI, PAU and MANAGE, Hyderabad from July 22- 27, 2019. A total of 14 candidates from different districts of Punjab participated in the training and got acquainted with different aspects of fish culture including pond preparation, stocking of fish seed, feeding management, water quality management, health management, pangas culture, ornamental fish culture etc.

### On-site awareness programme on aquatic animal disease surveillance

College of Fisheries conducted an on-site awareness programme on “**Aquatic animal disease surveillance**” at shrimp farms of district Mansa with special emphasis on Shrimp diseases and their management under the Indian Council of Agricultural Research and National Fisheries Development Board (ICAR-NFDB) funded project on ‘National Surveillance on Aquatic Animal Diseases’. During the Awareness programme, farmers were asked to strictly get the screening of the seed for *Enterocytozoon Hepatopenaei* (EHP) at the hatchery sites, since the disease is reported very recently in shrimp farms of Punjab.

### Farmers learn ways to manage crop residues at GADVASU

Thirty farmers belonging of village Dadehar Sahib from Tarn Taran district learned scientific ways to manage crop residue at GADVASU. Dr H K Verma, Director Extension Education, GADVASU, Ludhiana and Dr Balwinder Kumar, Deputy Director, Krishi Vigyan Kendra, Tarn Taran interacted with the farmers and informed them of how the farmers can save money, time and protect environment by scientifically managing the crop residues. Farmers were given practical knowledge regarding crop residue management machinery such as super SMS, Happy Seeder, Reversible MB plough, Rotary Slasher, mulcher etc.



Tips on scientific management of crop residues

### Animal Welfare and Treatment-cum-Farmer Awareness Camp

For providing door step facilities to farmers of Punjab, GADVASU organized an Animal Welfare and Treatment-cum-Farmer Awareness Camp, at village Bhuchar Kalan, Tarn Taran. 220 farmers attended the programme from the villages Bhuchar Kalan and nearby villages. More than fifty animals were treat-

ed on the spot by team of experts from the University and Krishi Vigyan Kendra, Tarn Taran. Surgeries were performed and animals were treated for gynaecological problems. Forty animals were diagnosed for different diseases and treatment was advised on the spot. Various aspects of livestock farming encompassing feed, fodder, livestock management, animal health and milk production were discussed by experts. Farmers of the area thanked university and KVK for organizing Animal Welfare Camp in the border village of the district.

### Progressive farmers' meetings

- An exposure visit of farmers from KVK Tarn Taran was conducted at College of Fisheries on July 10, 2019 by Dr. Abhishek Srivastava. During the visit, farmers were given knowledge about scientific management practices to be followed for profitable fish farming. They were also taken to different demonstration units for more practical exposure and knowledge update.
- Monthly meeting of Innovative Fish farmers Association (IFFA) was held on July 19, 2019 at College of Fisheries, GADVASU, Ludhiana. The meeting was convened by Dr. Vaneet Inder Kaur, Technical Co-ordinator of the IFFA. Member as-well-as some new farmers, who wish to start fish farming, attended the meeting. Along with general issues regarding fish farming, expert lectures were delivered by Dr. Grishma Tewari on ‘Care of fish during rainy season’ and by Dr. Abhed Pandey on ‘Feed & feeding management in fish culture’.
- Monthly meeting of IFFA for the month of August was held on August 22, 2019 at College of Fisheries, GADVASU. A total of 28 farmers from different parts of the State attended the meeting. Farmers were apprised of important management practices, including liming, flooding, overflow, stock escape/loss, dyke strength and entry of unwanted predatory and weed fish in the pond during monsoon months. Technical lectures were delivered on “Algal blooms management in fish pond” by Dr. Vaneet Inder Kaur, Technical co-ordinator of IFFA and “Fish health management” by Dr. Naveen Kumar B.T. Farmers were given insight on different types of harmful algal blooms and their management in terms of preventive measures and treatment methods.

- Dr Ajeet Singh also participated in live phone in programme on 'Machhi de Utpad ate Kissani' at FM Patiala on September 20, 2019. His delivered talk on processing of fish to produce ready to cook and eat value added products in present scenario.
- Dr. Meera D Ansal delivered Radio talk under the theme "Pangas machhi de behtar utpadan sambhandi uprale" for AIR, Jalandhar on Sep 16, 2019.

### Radio/ TV Talks

- Dr Prabjeet Singh delivered Radio Talk for All India Radio (AIR) Jalandhar on the topic "Care of fish pond in rainy season" on July 16, 2019.
- Dr Ajeet Singh delivered TV talk on the topic 'Fish processing and value addition' for DD Jalandhar on September 6, 2019. He informed the audience about the presence of intramuscular spines and pin bones in carps, causing difficulties for the consumer and also reducing aqua farmer's income by influencing its market price.

### Participation in Conferences/ Trainings

- Dr. Naveen Kumar B.T. attended one month training programme on "Advance virological techniques in aquatic animal disease diagnosis" organized by College of Fisheries, Karnataka Veterinary, Animal and Fisheries Sciences University, Mangalore, Karnataka from June 10-July 10, 2019.
- Dr. Prabjeet Singh, participated and presented paper in National Conference on "Fisheries and Climate: Strategies, Challenges and Sustainable Management" organized by Faculty of Fisheries, Sher-e-Kashmir University of Agricultural Sciences & Technology (SKUAST), Kashmir on July 18-19, 2019 at SKUAST, Kashmir

### University team assessed the livestock challenges in flood hit areas

A team of GADVASU scientists viz. Dr Kirti Dua, Incharge Wild life Centre & Professor Veterinary Medicine and Dr Mandeep Singh, Scientist, Animal Disease Research Centre visited the flood affected area in Shahkot subdivision of District Jalandhar. Due to the breaches in the Satluj river, around 80 villages of this subdivision were affected. Hundreds of the affected people took refuge on the elevated bank of the river along with their livestock. The GADVASU scientists accompanied by the State Government veterinary teams carried out the vaccination drive and gave treatment to the sick animals to avoid any sort of disease outbreaks.

### Activities of Krishi Vigyan Kendra(s)

#### Kisan Mela under Jal Shakti Abhiyan

Krishi Vigyan Kendra (KVK) of GADVASU at Booh, Tarn Taran organized Kisan Mela under Jal Shakti Abhiyan at its campus, Booh. More than 1200 farmers, rural youth, farm women, school and college students participated in the event. S. Harminder Singh Gill, MLA, Patti graced the occasion as the Chief Guest and encouraged farmers for judicious use of water and electricity in fields crops. Sh. Rajat Sachar, Senior Economic Advisor & Central Nodal Officer, Jal Shakti Abhiyan addressed the farmers about prime responsibility of every national to save water.



Tips on judicious use of Hydro-electrics

#### Camps/ awareness programmes for water conservation

KVK, Booh, Tarn Taran organized Kisan Mela under Jal Shakti Abhiyan at village Sohawa, (Tarn Taran). The participants were encouraged for adopting water conservation practices in agriculture and allied sectors. Various stakeholder including Department of Agriculture, Soil & Water Conservation, Department of water sanitation, CDPO, Verka, FASC, Tarn Taran participated in the Mela and put their exhibitions on water conservation practices. KVK, Booh also organized awareness camps regarding crop residue management and water conservation under Jal Shakti Abhiyan at village Dadehar Sahib, and on its campus. It also organized a village level awareness camp for managing the crop residue and water conservation at village Thattian Khurad attended by a total of 80 farmers.

KVK, SAS Nagar (Mohali) organized the farmers' awareness camp(s) under Jal Shakti Abhiyan at village

-ers' awareness camp(s) under Jal Shakti Abhiyan at village(s) Rattangarh and Neolkha, and its campus. In awareness programmes, the experts urged the farmers to follow farming methods that requires less usage of water for irrigation and gives higher yield.

KVK, SAS Nagar (Mohali) organized awareness programme for mobilization of school students on water conservation at Government Senior Secondary School, Saharaun (Mohali). A total of 140 students and teachers participated in the programme.



Perception on water conservation

### **National Fish Farmers' Day Celebrated**

KVK, S.A.S. Nagar observed the 19<sup>th</sup> National Fish Farmers' Day at its premise on 10<sup>th</sup> July, 2019. A total of 28 farmers participated in the event. Experts reflected upon contribution of aquaculture sector in the Gross Domestic Product (GDP) of the country and in livelihood security. The progressive farmers shared their success stories and encouraged participants to adopt integrated fish farming for employment generation and to enhance farm income.

### **Awareness camp on Management of Green Fodder and Feed for Milking Animals**

KVK, Booh, Tarn Taran organized a one day farmer awareness camp on "Management of Green Fodder and Feed for Milking Animals" for dairy farmers. The training at KVK was attended by 30 progressive dairy farmers.

### **Awareness programme on plantation of trees**

Krishi Vigyan Kendra, S.A.S Nagar (Mohali) in collaboration with IFFCO, S.A.S Nagar organized awareness programme cum Kisan Gosthi on plantation of trees at village Dulwan Khadri of Block Majri. Around 150 farmers in the programme. Five fruits and agroforestry plants were distributed to each participating farmers to invigorate them to plant fruit and forest trees in their household, surroundings and public places.

### **Farmer-Scientists interaction on 'Integrated Fish-cum-Pig farming'**

KVK, Booh organized the Farmer-Scientist interaction on 'Integrated Fish cum Pig farming' to develop Knowledge and awareness among farmers of the district Tarn Taran. Around 100 farmers participated in the programme, held at village Chapri Sahib. Dr. H.K. Verma, Director of Extension Education, GADVASU, Ludhiana, was the Chief Guest of the programme. Dr Verma inaugurated the newly constructed integrated unit of Fish-cum-Pig farming at the farm of S. Gurchetan Deep Singh, developed under the guidance of scientists from KVK, Tarn Tran.

### **Training on Scientific Fish Farming**

KVK, Mohali organized a one week vocational training on Scientific Fish Farming, in view of the vast and untapped potential of fish farming as an enterprise in the Punjab state. In total, 14 farmers completed the training successfully. The farmers were shown various video documentaries viz. fish farming developed by ICAR-CIEF, Mumbai, ornamental fish farming and aquarium fabrication. An exposure visit of trainees was organized to the fish farm of progressive farmer, Sh. Amarpreet Singh Hansrao (2019 Chief Minister Awardee) who is practicing integrated farming involving piggery, fishery, agriculture, poultry and biogas production at Chamkaur Sahib.

Another one week vocational training on training "Scientific Pig-cum-fish farming" was organized by the KVK, S.A.S.Nagar (Mohali) at its campus where Twenty three farmers participated in the training programme.

### **Vocational Training Programme on 'Scientific Poultry Farming'**

KVK, Booh, Tarn Taran organized a five days on-campus' Vocational Training Programme on 'Scientific Poultry Farming'. Thirty farmers belonging to Scheduled Cast community participated in the training course held under RKVY and gained scientific knowledge on various aspects of poultry farming for their economic upliftment. The participants were informed about the importance of poultry sector in Punjab and were encouraged for adopting poultry farming as an allied business on the scientific lines to supplement their income.

### First academic session at new Veterinary College, Rampura Phul started

To cater the demand for professionally qualified veterinarians and to promote the occupation of Animal Husbandry and Dairy Farming in the state, the first academic session at newly established Veterinary College, Rampura Phul was started. The college is affiliated with GADVASU and has intake capacity of 80 students in the first professional of veterinary programme.

### Establishment of a Unit of Guru Gobind Singh Study Circle at the University

As part of its ongoing celebration to mark the 550th birth anniversary of Guru Nanak Dev Ji, a unit of Guru Gobind Singh Study Circle was established at Guru Angad Dev Veterinary and Animal Sciences University. Dr A. S. Nanda, Vice-Chancellor of the University addressed the students, faculty and non-teaching staff present at the event and said that Guru Gobind Singh Study Circle will function as a platform to help boost moral and ethical values among students and develop a sense of dedication and service to lead a truthful life.

As part of its activities, the Guru Gobind Singh Study Circle of the University organised a tea and water stall at the Regional Agriculture and Pashu Palan Mela 21-23 September 2019. The Guru Gobind Singh Study Circle also offered free water and refreshment to the students and their parents attending the counselling at University campus for admission to Veterinary College, Rampura Phul. Around 500 people were served during the event.



Refreshment being served to the students and parents

### Swachh Bharat Summer Internship Programme

College of Animal Biotechnology, GADVASU conducted 20 days Swachh Bharat Summer intern-

-ship programme under the aegis of National Service Scheme (NSS). Dr. Satyavan Rampal, Director Students Welfare-cum Estate Officer, GADVASU and Mrs Kamal Preet Brar (IAS), Commissioner of Municipal Corporation, Ludhiana inaugurated the internship programme and apprised that the University is regularly participating in the *Swachh Bharat Abhiyan* initiated by the Prime Minister's Office. GADVASU adopted village Barewal Awana of Ludhiana for the programme. The participating students took part in cleanliness of the area, door to door campaign, tree plantation, awareness drive through street-drama presentation and wall paintings on water conservation, pollution control, garbage disposal, refusing disposal of plastic-bag etc.



Awareness about Swachh Bharat Mission

### Veterinary graduates take Oath

College of Veterinary Science, GADVASU conducted Oath-Taking Ceremony of 70 passing out veterinary graduates of Batch 2014. In welcome address, Dr. Sarvpreet Ghuman, Professor and Head, Department of Teaching Veterinary Clinical Complex, shared the achievements of students who brought laurels to the University in the field of academics, sports and extra-curricular activities. Dr. Prakash Singh Brar, Dean, College of Veterinary Science administered the Veterinarian's Oath to the passing out graduates and asked them to ensure veterinary practice in line with the principles of veterinary ethics covered in the oath with the aim of benefit to society.



Students being administered oath