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## Vice Chancellor's Desk

First of all, I convey my greetings for the new year to all the students, faculty and staff of Bihar Animal Sciences University. We are all facing unprecedented bad times as the world is fighting with the COVID pandemic. Normal life has been disrupted and universities are trying hard



to impart quality education through virtual/online platforms. There is a ray of hope as many laboratories have advanced in the direction of successful testing of vaccines being developed by them. I am confident that effective and safe vaccines can be made available in early 2021 and till such time our control measures are also leading us to success in restricting the spread of the corona infection. Hopefully, new year 2021 will mark the victory of mankind in defeating the viral menace of corona.

Hon'ble Prime Minister, Shri Narendra Modi launched Pradhan Mantri Matsya Sampada Yojana (PMMSY) and other projects related to agriculture and animal husbandry through video conferencing on 10 September 2020. We hosted this event for Patna at our university's Livestock Farm Complex. The event was attended by Hon'ble Ministers, Members of Parliament and other Public Representatives along with progressive farmers and beneficiaries of different schemes. The facilities inaugurated include 'Embryo Transfer Technology Lab' (Patna) and 'Disease Diagnostic and Referral Laboratory for Aquaculture' at College of Fisheries Kishanganj. During the pandemic affected period, BASU organized many important events in online mode, including the Third Foundation Day of the University (29 August 2020), and Dr. birthday of Dr. C M Singh as Veterinary Doctors Day (30 Nov. 2020), besides a number of important lectures, workshops and webinars. We also reached out to the needy as people in some parts of our state faced the fury of floods in the rainy season and our scientists organized animal health camps in the flood affected villages.

After assembly elections the new government took over the administration in Bihar. We had the opportunity to welcome Hon'ble Minister of Animal & Fisheries Resources, Shri Mukesh Sahni at our university campus. He visited the Veterinary Clinical Complex, addressed the senior faculty, and shared his views regarding the future progress of the university. He took keen interest in our research programmes and assured full support to the university for which I am thankful to the Hon'ble Minister.

I take this opportunity to thank our students, faculty and staff who have shown exemplary resilience and positive thinking during the difficult times and kept our activities running on schedule. I wish that you all remain safe, remain positive and welcome the new year 2021 with all enthusiasm and hope.

Dr. Rameshwar Singh

## Zonal level workshop for Krishi Vigyan Kendra's



A zonal level workshop for 68 Krishi Vigyan Kendra's of Bihar and Jharkhand Provinces was organized on virtual mode by the Zone 4 of ICAR-Agricultural Technology and Application Research Institute on 20th of July, 2020. Shri Kailash Chaudhary, Minister of State for Agriculture and Farmers Welfare graced the occasion as the chief guest. In his address he stated that it is informed that various good work is being done by Krishi Vigyan Kendra's all over the country at the local levels to minimize the problem of the farmers and providing them with better solutions with the help of latest techniques and mechanism, which is proving very helpful in doubling the income of farmers both in the areas of farming and animal husbandry.

He further stated that, whatever suggestions have been given by the Vice Chancellors of various universities of Bihar and Jharkhand regarding the development of the Krishi Vigyan Kendras the government will take those in to consideration. He said that the government is determined to address the problems.

Agriculture-cum-Animal Husbandry Minister of Bihar, Dr. Prem Kumar said that the Bihar Government is giving adequate support to the Krishi Vigyan Kendras and the work being done by them under the "*Garib Kalyan Rojgar Abhiyan*" is commendable. He further said that the Government of India and the State Government are working hand-to-hand for the betterment of the farmers, under which the payment of "*Kisan Samman Nidhi*" is being paid directly to the bank account of the farmers by DBT. He also highlighted the fact that Bihar is at the forefront of payment under this fund. Talking about the migrant laborers who returned to the state due to COVID pandemic, he said that they would be trained in collaboration with Bihar Animal Sciences University and other agricultural universities of the state for their skill development and training so that there is no hindrance in their livelihood and they can stay in the state and earn a better income.

Dr. Rameshwar Singh, Vice Chancellor, Bihar Animal Sciences University, Patna, said that work being done by the Krishi Vigyan Kendra's across the country is worth appreciating, he further said that Bihar Animal Sciences University is committed to provide research related technical support in the field of animal husbandry to the entire zone and for this, he urged the experts of animal husbandry who are posted in various KVK's to get the necessary technical information from this university and benefit the farmer of the state. In this workshop, the Annual Action Plan of all Krishi Vigyan Kendra's was reviewed and the action plan for 2020-21 of Krishi Vigyan Kendra Jamui was presented by the Center Head Dr. Sudhir Kumar Singh.

## Webinar on Ornamental Fish Enterprises

A two-day webinar on the scope of Ornamental fish enterprises in Bihar was organized by the College of fisheries, Kishanganj on 11th of August 2020. Dr. N. Saravana Kumar, Secretary, Department of Animal and Fishery Resources, Government of Bihar, was present as the chief guest for the webinar. On this occasion, he said that this area is absolutely untouched, and it has wide scope of employment and trade.



Emphasizing on the possibilities of entrepreneurship development in the field of ornamental fisheries, Dr. N. Saravana Kumar said that in order to make the farmers employment oriented in the region, the department has done research on ornamental fish and has identified 80 species in Bihar and work is being done for the development of this sector. He also stated that this is the most favorable time to work on this subject and there is no shortage of water resources in our state, there are many watersheds like Chaur, Freshwater, Pond, Rivers, which will help in the development and employment generation in the field of Ornamental fish farming.

Assistant Director (Fisheries) Dr. Nishad Ahmed, was also present in the webinar, he addressed the audience stating that there is a tremendous scope in ornamental fish farming. A survey conducted by the department in 2015 showed that Bihar has 80 species of native ornamental species, which farmers cultivate and localize. They sell it in the market, but if training and awareness is brought, then there will be a huge growth in this area, as well as good profits can be made from export trade.

University Vice Chancellor Dr. Rameshwar Singh while addressing the participants said that ornamental fisheries is an emerging sector in which we need to get ahead, this is an area which is not limited only to fish production but also aquarium construction, accessories, Artificial aquatic systems and is associated with multiple dimensions. This sector is a means for employment generation with lower inputs and higher outcomes.

Dr. Raman Kumar Trivedi, Director Student Welfare said that a road map for the ornamental fisheries will be developed by the university, with complete plan and work policy. Further this policy will be submitted to the department. This two-day webinar featured five technical sessions in which Dr. Atul Jain, Sanjay B., Dr. B.K. Mahapatra, Dr. Archana Sinha and Sunirmal Das were present as speakers and witnessed 197 people from all over the country.

## Seminar on "Clinical Application of Veterinary Nuclear Medicine: Current eminence"

Bihar Animal Sciences University organized a Seminar through zoom meeting app on "Clinical Application of Veterinary Nuclear Medicine: Current eminence" on 2nd & 3rd of July 2020 for Faculty and Post graduate students under ICAR-NAHEP (IG). The Objective of this Seminar was mainly focused to understand the use of Nuclear Medicine in veterinary field, the current use of Nuclear medicine and its prospects in Veterinary Medicine and the use of RIA for the diagnosis of diseases. Dr. C.N. Galdhar, Asst. Professor, Dept. of Vet. Medicine, Bombay Veterinary College joined the session as a speaker in this seminar.

## World Zoonoses Day, Webinar on "Ecohealth in relation to emerging zoonoses"

On the occasion of world zoonoses day, celebrated on 6th July 2020, on-line seminar was organized on the topic "Eco health in relation to emerging zoonoses" under NAHEP- IG scheme at Bihar Animal Sciences University, Patna. Dr. S.V.S Malik, principal scientist. & Head, Division of VPH, IVRI was present as the speaker of the seminar which was open for all the faculty & students of BASU and for other university as well. More than 90 participants have participated and got benefitted from the seminar.

The seminar was very pertinent to the current scenario of emergence of zoonotic diseases. The speaker had deliberated in detail about factors responsible for the emergence of zoonoses and concept of one health in the changing global scenario. The role of eco system and environmental health in relation to emerging and reemerging zoonoses like Covid-19, Bird flu, Zika virus, Swine flu, Ebola etc. were discussed by Dr. Malik. The changing agricultural and animal husbandry practices has become a threat for biodiversity maintenance. Hence the role of biodiversity in the emergence of new diseases was emphasized and correlated the climate changes and increasing environmental pollution to diseases emergence.

## Webinar on "Online Training for Indian citation Index"

Bihar Animal Sciences University organized a webinar through Zoom cloud for Faculty and Post Graduates Students on "Online Training for Indian citation Index" on 2nd of July 2020. The main Objective of this Seminar was the Overview of Indian citation Index and Live demonstration of India citation Index. The seminar was organized under NAHEP (IG) project where 140 members (Faculties and Post graduate Students of University) participated. Dr. Prakash Chand, Head ICI and Mr. Adarsh Kumar Singh, Product Trainer were present as the expert.

## Webinar on "Diagnostic approaches and management of cardiac disease in canine"

A three days National webinar on the topic "Diagnostic approaches and management of cardiac diseases in canine" was held at BASU, Patna under ICAR-NAHEP (IG) from 21st -23rd August 2020. The lectures covered in these three days on the topic, Cardiac Evaluation Approach, Cardiac Arrhythmias and conduction disturbances in canine and Canine Cardiomyopathy. Dr. J. P. Varshney, an eminent canine practitioner and Ex Principal Scientist, IVRI was invited as the lead speaker for the three days webinar.

## Webinar on "Dairy herd dynamics & criteria of culling for maximization of Profits"

University organized a webinar on "Dairy herd dynamics & criteria of culling for maximization of Profits" under ICAR-NAHEP (IG) on 4th of July 2020. Dr. A.K.S. Tomar, Principal Scientist, IVRI, Izatnagar was present as the speaker. On his lecture he delivered on Herd dynamics and criteria of culling. He said that Culling is an important tool to remove low productive animals to maintain the efficient herd population for maximum productivity and reduction of cost on feed and management. The presentation covered holistically all aspects of dairy dynamics and better management practices. He said that for optimum return high quality dam and sire is selected to maintain the productive farm lot. However, 25% animals per year of inferior, low yielding, aged, diseased, paralyzed and good animals are culled for optimum production.

## Webinar on "Challenges and opportunities in wildlife disease diagnosis with special reference to postmortem diagnosis"

A webinar on topic "Challenges and opportunities in wild life disease diagnosis with special reference to post mortem diagnosis" was organized under NAHEP (IG) on 10th of July 2020. Eminent speaker Dr. Susen Kumar Panda, Professor and Head, Department of Pathology, Bhubaneswar Veterinary College, Odisha was invited as the resource person. The topic chosen was very pertinent, since it was related to wild life pathology. Dr. Panda highlighted the different affections of wild animals especially elephants, tiger and wild ruminants by different etiological agents viz. viruses, bacteria, ecto- and endo-parasites, haemo- protozoans, fungus etc. The different challenges which limit the health care and management in wild life were discussed. The technique to be adopted in special circumstances for conducting post-mortem was emphasized. At the same he emphasized the importance of post mortem diagnosis in case of wild life disease diagnosis. The deliberation was well supported by original photographs which was further made interesting by his own experiences. The scientific deliberation was self-explanatory and covered all the related issues. The closing remarks and valuable suggestions viz. need of working on knowledge of behavioral attitude of wild animals and diseases of zoonotic importance was given by the Director Research, BASU.

## International webinar on "Diagnosis and treatment of Pet Bird Diseases"

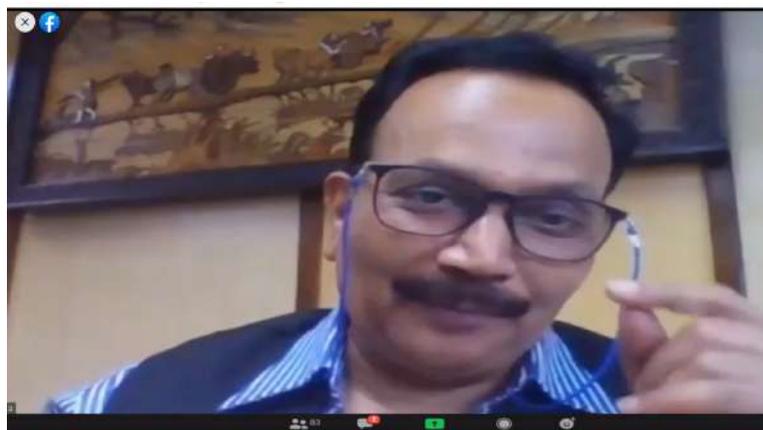
An International webinar on the topic Diagnosis and treatment of Pet bird Diseases was organized on 16th August 2020. The webinar was conducted under the banner of Society for Formation of Farm and Companion Animals (SPFCA, 2020) and Bihar Animal Sciences University, Patna. Dr. Ram Mohan an eminent Pet Bird specialist of U.S.A was the lead speaker and Dr. J. P. Varshney, Ex- Principal Scientist, IVRI and Dr. Ajit Kumar, Professor, Bihar Veterinary College, were the panelist of the webinar. This webinar was presided by Dr. Rameshwar Singh, Vice Chancellor, and the Patron of SPFCA and the president of the society Dr. J. K. Prasad. More than 350 participants registered for webinar from different parts of the country including pet lovers and Veterinary students. The online program was conducted on zoom was a unique event where number of questions which were raised during discussion were answered and compiled to a booklet form for wider circulation.

## Sensitization Workshop-cum-Webinar on "Agricultural Knowledge management in networked digital environment"

A webinar on "Agricultural Knowledge management in networked digital environment" was organized jointly by the university, National Knowledge Management Centre for Agricultural Education and Research and ICAR- Indian Veterinary Research Institute, Izatnagar under ICAR-NAHEP (IG) on 5th of August 2020. The speed and mode of services that librarians and information professional use has thus become very important and have undergone fundamental changes over past few decades. Digital resources, digital services and information access technologies continue to create new opportunities, new challenges and new expectations. Union catalogue, digital repository and digital libraries are the new dimensions that have been added under E-Granth initiative as part of National Agricultural Innovation Project (NAIP). The main objective of this program was to accelerate the online access of knowledge to the researchers, teachers, students, extension professionals in 17 State Agricultural Universities and 4 deemed to be universities. Taking note of the fast pace of innovations happening in the field of digital knowledge management the workshop provided the knowledge for a collaborative management structure to coordinate and guide the implementation and ongoing maintenance of the digital libraries, to set policy regarding participation, funding, development and access, to encourage and facilitate broad involvement, and to address issues of policy and practice that may inhibit full citizen access.

## Webinar on "Challenges and opportunity for dairy development in eastern India"

A webinar on "Challenges and opportunity for dairy development in eastern India" was jointly organized by the university and National Academy of Dairy Sciences (India) on 8th of August 2020. Dr. A.K. Srivastava, President, NADS(I) was present as Key Note Speaker. At the outset Dr. Srivastava delivered his key note address on Dairying in eastern India: Stability & Fragility. He said that in Eastern India (Bihar, Jharkhand, Odisha and West Bengal) about 82% dairy farmers small/marginal and land less. Dairying is predominantly unorganized and is dependent on rural households in Eastern India. He further said that there is Stability in Indian Dairy Sector, there seems constant and sustainable growth despite limited investment from public and private sector. India has Mega biodiversity and Largest bovine population with Highest milk production with high growth rate and Low



production cost, we are also the world's largest and leading buffalo germplasm holder. Talking about the challenges in eastern India he said that there is low productivity with high population. The productivity in India is about 1/8th of the global average, and in Eastern India, it is further low. Factors like shortage of feed and fodder, continuous reduction in area under fodder production are the challenges as Eastern India most of the parts are drought prone region or flood prone region, late sexual maturity of dairy animals, Large number of milch animals are breed-able but not calved, long calving intervals and very long gap between calving to conception is also a big factor, wide gap between availability and demand of proven males, indiscriminate breeding under field condition and almost untrained or poorly trained majority of AI technician are the major factors affecting the productivity of Dairying in Eastern India. He said that Future growth of Indian dairying must come from Eastern India but we need to support small holder dairy farmers with good milch animal, promote the sector in newer areas i.e. value added dairy products, create and modernize the dairy infrastructure, bridging the gap in fodder requirement, semen dose requirement and giving a technological face lift to the sector may lead to betterment and growth to this region.

On this occasion Vice Chancellor Dr. Rameshwar Singh said that there is development in different states but, if we see the gross parameters say, GDP, per-capita income, productivity of crops and animals, certainly there is wide gap in Eastern India and the potential is yet to be tapped. The potential can be realized with appropriate policy, investment, development of infrastructure and manpower. "In the last few years there has been discussion in bringing the second green revolution in India and it has been said that the second green revolution can be brought only through the eastern India but before that the gap needs to be bridged" said Vice-Chancellor Dr. Singh. Dean of Sanjay Gandhi Institute of Dairy Technology Dr. B.S. Beniwal said that the areas of shortage need to be hammered as a fire fighting operation. The day-long webinar ended up with suggestions by eminent researchers and professors of Dairy sector.

## Webinar on " Waxing and Waning of corpus luteum in Animals"

An online seminar was organized on 24th September 2020 under Indian Society for the Study of Animal Reproduction, Bihar Chapter & NAHEP (IG) scheme on topic "Waxing and Waning of Carpus Luteum in Animals" via Zoom cloud application. Dr. K Narayanan, Principal Scientist, ICAR-IVRI, Bangluru was present as the lead speaker for the seminar. On his lecture he covered various aspects of female reproduction. The speaker explained the temporary endocrine structure i.e. corpus luteum and its physiological importance in maintaining pregnancy. The speaker also emphasized several functions of corpus luteum with special reference to cows and buffaloes. This seminar was valuable one in terms of its field applicability and adoptability. The effect of seminar among the participants became many folds due to its much-simplified presentation. The need of the hour is proper implication of various latest and useful techniques by scientific communities at field level to improve reproductive health status in our respective states.

## Webinar on "Subclinical infection of Foot and Mouth Diseases Virus in Cattle & Buffalo"

A webinar on "Subclinical infection of Foot and Mouth Diseases Virus in Cattle & Buffalo" was organized by the university under NAHEP (IG) scheme on August 7, 2020. Foot and Mouth diseases in animals is a very common disease particularly in the dairy cattle and its adverse effects are challenging among the farmers hampering the economics of livestock farming in India. To have a healthy discussion and enlightenment on the current perspective and impact of FMD virus in the economic growth of the nation.

Dr. Rajeev Ranjan, Scientist and Bio-safety Officer, ICAR-International Centre for Foot and Mouth Diseases was present as the speaker. He said that FMD is a very challenging disease affecting all around the world and it affects the economic growth of livestock sector and the cattle owners as a result the farmers suffer a lot. In his deliberation he emphasized upon the diagnosis of FMD, mechanism of FMD persistence and its current status in India. While discussing he said that FMD is a major threat to livestock economy. Detection of FMD virus in milk is up to 37 dpi (days post infection) and FMD virus-associated abortion and vertical transmission following acute infection under natural condition. FMD virus persist in cattle and buffalo up to 7 mpi (months post infection) and 13 mpi respectively at their sites of persistence i.e. dorsal soft palate, dorsal nasopharynx, palatine tonsil after subset of FMD virus infection. Moving further he said that the antigenic and genetic variants are generated during the persistent phase of the disease and during a natural outbreak generation of antigenic variants may be more frequent in carrier buffalo than cattle. "For FMD control and eradication in India, there is a need for continuous development of the novel diagnostic assays to detect FMD virus persistence in animals" said Dr. Rajeev.

At the outset Vice Chancellor Dr. Rameshwar Singh said that FMD is a national problem. Not only the affected areas but all susceptible areas need to be addressed to get rid of this infectious disease. He said that this disease causes direct loss by mortality further compounded to loss of production, loss of reproduction and economical losses. There is long history of research on FMD in India and we all together have to pursue in mission mode to eradicate this disease in line of the polio eradication program.

## Talksprenuer: Lecture by the alumni of BVC

Lecture series by the successful entrepreneur and alumni of Bihar Veterinary College was organized by Human Resource Development Section of Bihar Animal Sciences University, Patna on 3rd and 9th October 2020 in virtual mode under the guidance of Dr. Veer Singh, DRI-cum-Dean, PGS, BASU, Patna. Alumni speakers Dr. (Capt.) Tanveer Alam, Marketing Director (Animal Nutrition), Kemin Industries South Asia Pvt. Ltd, Chennai; Dr. Naveen Kumar, Business Director, Delst Asia Ltd., Delhi; Dr. Nilay Prasad, Director, Vetogen Animal Health, Bangalore and Dr. Anand Madhav, Regional Director, Reckitt Benckisier, Hyderabad delivered their lectures on different exciting career opportunities for budding veterinarians. The speakers interacted with students and motivated them to grab job opportunities in national/international companies of animal health industry, entrepreneurship, military services, research and development sectors.

Hon'ble Vice-Chancellor, Dr. Rameshwar Singh appreciated the bondage of alumni and initiative of academia-industry interaction.



## Veterinary Clinical Complex, BVC, Patna

Dear Readers,

Last issue of the year 2020 is in your hands. This is your platform. We request you to send reports on major achievements, events and happenings in BASU. Articles, success stories and research based features are also invited. Please mail your contributions along with high resolutions pictures (.jpeg format) to:

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-Editor

## Virtual oath taking ceremony



Bihar Animal Sciences University organized a virtual oath taking ceremony for 33 students of the 2015 batch of Bachelor of Veterinary Sciences and Animal Husbandry (B.V.Sc & AH) on 11th of July, 2020. Dr. Pooja Anand, who secured the highest marks in Animal Production was awarded the Best Animal Production Award and Dr. Akanksha Anand, who scored the highest in clinical subjects was awarded the Best Clinician Award. The Vice Chancellor of Uttar Pradesh Pandit Deendayal Upadhyay University of Veterinary Sciences and Gau Anusandhan Sansthan, Mathura, Prof. G.K.

Singh was present as the chief guest. He congratulated and addressed the pass outs. He said "students passing out here are reflection of the tireless efforts of the teachers. Students should fulfill their obligations towards the society in a better way, this is the main objective behind the oath". Addressing further he said, "presently the world has become a global village where you may need veterinarians anywhere and anytime, students must prove themselves by their actions and abilities so that people can understand their value". He further added that the real meaning of success is only when you are satisfied with your own success.

On this occasion, the Vice Chancellor of the University, Dr. Rameshwar Singh, in his online address to the students said "you are going to become an alumnus of such a historical institution which has the glory of more than 90 years, for which you all deserve a huge applaud. The students are the future of any institution who takes the name and fame of the institution ahead". He said that a veterinarian has a huge responsibility towards the society, today the work of a veterinarian is also very important in the time when the whole country and the world is passing by the ill effects of the pandemic. We have succeeded in defeating many diseases like Ebola, Swine, Bird Flu and a veterinarian has a huge contribution in this. In future also, students should discharge their duties in a good way, so that animals, humans and our society remain healthy and a better country is built. Dr. JK Prasad, Dean, Bihar Veterinary College welcomed the guests and presented a report on teaching-learning methodology opted during the lock down.



## BASU celebrated its third foundation day

University organized its third foundation day on 29th of August 2020 through online mode, Dr. Prem Kumar, Minister of Animal and Fisheries Resources Department, Govt. of Bihar attended the function as the chief guest, while Secretary, Animal and Fisheries Resources Department Dr. N. Saravana Kumar was present as a guest of honor. On this occasion, Foundation Day lecture was presented by Dr. AK Mishra, Chairman of Agricultural Scientists Recruitment Board, New Delhi. At the beginning of the program Director Residential Education-cum-Dean Postgraduate Education Prof. Veer Singh welcomed everyone.

While addressing the occasion Hon'ble Minister Dr. Prem Kumar said that in the field of agriculture, animal husbandry and fisheries the state is growing very fast, these areas have a great contribution in the development of this state. Bihar Animal Sciences University has been established for the development of livestock in the state under the agricultural road map and in the last three years the university has done a commendable work. He said that the university's Veterinary Clinical Complex is experiencing an increase in the cases of sick animals as never before. It is clear from this that the treatment facility here has become better and the trust of the farmers and cattle owners has increased. Several training courses have been organized by this university to make the migrant laborers employment-oriented, who returned in the state due to COVID, which will prove beneficial for them.

Secretary, Animal and Fisheries Resources Dept. Dr. N. Saravana Kumar said that this university has done very well in a very short span of time, besides empowering itself in education, research, training, and digital platforms it has successfully completed many tasks which shows that the foundation of this university is strong.





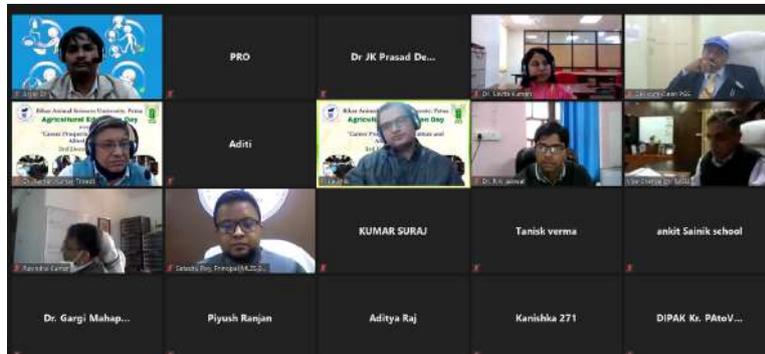
## Birthday of Dr. Rajendra Prasad celebrated as Agricultural Education Day

The 3rd of December is marked as the birth anniversary of the first President of India, Dr. Rajendra Prasad. In honour of his magnanimous personality and his contribution to the Indian agriculture sector, this very auspicious day was celebrated as the “Agricultural Education Day” at Bihar Animal Sciences University. A webinar was organized for school students focusing on career prospects in agriculture and allied sectors. Vice-Chancellor Dr. Rameshwar Singh was the chief guest for this programme and in attendance were a hundred students from Kendriya Vidyalaya, Bailey Road, Patna, Pataliputra Central School, Patna, Mount Litera Zee School, Bhagalpur and Vidya Bharati School, Rajgir. The entire programme was conducted on zoom platform.

The key feature of this webinar was to inform the students about the employment opportunities in agriculture and allied sectors. They were introduced to the various branches of agriculture sciences viz. horticulture, agricultural marketing and processing, agricultural engineering, fisheries, veterinary science, dairy and food technology.

Dr. Rameshwar Singh, instituted the students with the fact that agriculture is the biggest sector of India and more than 58% of the people are directly dependent on agriculture which encompasses animal husbandry, horticulture, food production, dairy industry, fisheries etc. as food is the primary requirement for all of us and for

our animals. He further mentioned that during the post-independence period our country was not self-sufficient in food production. As a nation we faced food shortages. Many policy decisions were taken for self-sufficiency and today it is the result of agricultural research that with new research and methodology we have been able to strengthen ourselves in this field. At present there is no shortage of food, but we also export our produce to the world. He further acknowledged the students stating that there is no shortage of possibilities in this field, one can join this field and contribute immensely. Their research will benefit the whole world.



## Independence Day Celebrations

This year Independence Day celebrations was unlike any other we have seen before. Traditional Independence Day celebrations and events was restricted with social distancing. But, the day of national pride with the same enthusiasm was celebrated keeping the COVID appropriate behavior in mind. Vice Chancellor Dr. Rameshwar Singh hoisted the Indian tricolor at the university premises in the presence of all senior officers of the university. The flag hoisting program was Live on Facebook and YouTube channel of the University. On this occasion Vice-Chancellor addressed the audience and threw light on the sacrifices the freedom fighters have made to secure the country's future. He stated that since its independence, India has made stellar progress in every field, including education, security, health, space programs and many more. Further in his address Vice Chancellor congratulated and thanked each one from the university for their effort and services they provided during the pandemic.



### Visit of Hon'ble Minister at BASU

A welcome ceremony was organized by Bihar Animal Science University in honor of newly elected Honorable Minister of Animal and Fisheries Resources Department, Govt. of Bihar Shri. Mukesh Sahni on 5th of December 2020. This was his first visit to the university after becoming a minister. While addressing honorable minister said that a lot of work has to be done in the field of animal husbandry, fisheries, dairy and allied sectors. "I will give my cent percent towards the responsibility given to me and I am determined to improve this department", he said. Speaking about the milk productivity of the state he said that at present 20 lakh liters of milk is being produced every day in the state, a target has been set to increase it to 40 lakh liters in the coming time, for this, better facilities, resources and schemes will be provided to the Gau-Palak's to increase their income and growth in livelihood. Expressing concern over the lack of veterinarians at the block level, he said that keeping in mind the interest of the farmers and livestock owners, a mobile veterinary ambulance service is to be started at the block level, so that farmers and livestock owners can be benefited at their door step.

On this occasion, he also visited the Veterinary Clinical Complex of Bihar Veterinary College and appreciated seeing the facilities and the ongoing medical use of new equipment and saw the project plan of the new building of the university.



### ETT lab inauguration by Hon'ble Prime Minister

Hon'ble Prime Minister Shri Narendra Modi on the 10th of September 2020 (Thursday) launched Pradhan Mantri Matsya Sampada Yojana (PMMSY) and other projects related to agriculture and animal husbandry through video conferencing. The objective for the event was to boost production and exports in the fisheries and animal husbandry sector as part of the government's aim to double farmers' income. The entire video conferencing set-up and programme at Patna was organized by the Bihar Government at Bihar Animal Sciences University's Livestock Farm Complex.

Under the PMMSY scheme Hon'ble Prime Minister inaugurated the High-tech lab for disease diagnosis of fish, quality testing and aqua referral laboratory worth Rs. 10 crore at College of Fisheries, Kishanganj, a constituent college of Bihar Animal Sciences University. Prime Minister also inaugurated and laid the foundation stone of Embryo Transfer Technology and



IVF lab at Bihar Animal Sciences University worth Rs. 8.06 Crore. After the launch, Prime Minister interacted with farmers focusing on the livestock and fisheries sector. The PMMSY is a flagship scheme for focused and sustainable development of fisheries sector in the country with an estimated investment of ₹20,050 crore for its implementation during 2020-21 to 2024-25 as part of Aatmanirbhar Bharat package.

Prime Minister also inaugurated the e-Gopala App, a comprehensive breed improvement marketplace and information portal for direct use of farmers. Inaugurating the schemes, the PM said, "People engaged in pisciculture will benefit largely from this scheme. It is our aim that in the next 3-4 years, we double our production and give fisheries sector a boost. He further said that this scheme will pave the path for a renewed White revolution (dairy sector) and Sweet revolution (apiculture sector).

## Animal Health Camp



Animal health checkup and drug distribution was done by Bihar Animal Sciences University, Patna in flood affected areas of Sonapur on 23rd of September 2020. Infected animals were treated Door-to-door by the scientists of the university on Gangajal Diara and Bhinnichak Main Road in Sonpur. The camp was organized by the Animal Disaster Management Unit of Bihar Veterinary College, Patna. University Vice Chancellor Dr. Rameshwar Singh, Dean Dr. J.K. Prasad, Director Extension Education Dr. A.K. Thakur and Director Students Welfare Dr. Raman Kumar Trivedi flagged off a 20 members scientific team. On this occasion Vice Chancellor, Dr. Rameshwar Singh said that the University is playing a leading role in providing medical facilities to the livestock owners of the state by visiting their home in this difficult situation. Dr. Pankaj Kumar, Dr. Saroj Rajak, Dr. Mithilesh Kumar, Dr. Archana Kumari, Dr. Vivek Kumar, Dr. Dushyant Yadav, Dr. Chandrashekhar Azad and Dr. Anil Kumar were present in the team. In this camp, a total of 272 animals were given medical aide and medicines were distributed free of cost. Experts said that in this area mainly animals were suffering from worm, abortions, diarrhea, fever and parasitic diseases which was successfully treated.

## Audio conference session

On the occasion of National Disaster Risk Reduction Day (14th October 2020), an audio conference session was organized under the joint aegis of Reliance Foundation and Bihar Animal Sciences University, in which 30 cattle bearers of Bochhan block of Muzaffarpur participated. Farmers were added by audio conferencing mode on the topic "Rescue, health and nutrition of animals in the hour of disaster". The geographical situation of Bihar is such that the rivers here flow with high currents, the Bagmati river and its surrounding areas were posing water logging problems during the rainy season, most of the villages of Bochhan block of Muzaffarpur at that time were flooded. The flood had affected the lives a lot, animals were suffering in such a situation, the problem of diarrhea, fever etc. was common. In the conferencing, many colleagues told that after consuming the flood water, symptoms of diarrhea were found in many animals and many animals died. Eating grass grown immediately after the flood water dries also poses a risk of stomach ache and other stomach related diseases. Dr. Pankaj Kumar, Assistant Professor, Dept. of Veterinary Extension Education, answered the questions of the animal bearers on the problems related to animal health and animal nutrition at the time of floods, and gave various information on aspects of medical and management of animals both for dry and cold weather specially regarding fodder scarcity.



## News from KVK, Jamui

### Training program for Farmers, Rural Youth & Extension Functionaries.

Training is the major activity of KVK and it has conducted 40 training programs covering 1179 farmer and farm women from July to Dec. 2020. The training programme was conducted in different thrust area i.e. Seed Production, Resource Conservation technology, Water management, Soil Testing, Organic farming, Nutrient Management, Vegetable production, Spice production, Kitchen Garden & Goatary, Poultry etc.

### Tribal Sub Plan

Improved variety of turmeric as variety Rajendra Sonia and Papaya as variety Red lady were demonstrated in tribal community with 50 farmers. Drought & aerobic rice genotypes as Swarn Shreya was demonstrated on large scale in different villages of block chakai. Training program & Extension activities such as Kisan Goshthi & Kisan Chaupal is being conducted on regular basis.

### Cluster Front Line Demonstration

The scientific cultivation method of improved variety of Mustard, chickpea, Lentil, Turmeric, Papaya were demonstrated in the farmers field covering 150 acre under FLD programme. The drought tolerant Rice variety i.e. swarn shreya, swarn shakti & swarn samridhi were demonstrated in the farmers field having poor water availability.

### CSISA Survey work

Cereal system initiative in South Asia (CSISA) is a project funded by CIMMYT India. KVK jamui has been awarded this project to implement in the district. The work has been started with digital diagnostic survey covering 30 villages of different blocks of jamui & the soil samples were collected at the same time.

### Prithvi Diwas

Pritvi Diwas was celebrated on 09.08.2020. A plantation programme was conducted with farmers on different location. 500 plant saplings were planted on the same day.

## Poshan Maah



KVK, Jamui celebrated the month of September as "POSHAN MAAH" and conducted state level workshop on "Role of Nutrition Garden" for the farm women on September 17, 2020. Dr Rameshwar Singh Hon'ble Vice Chancellor, BASU, Patna graced the occasion with his presence through zoom as a chief guest. Other dignitaries were Dr. A K Thakur, DEE, BASU, Patna Mrs. Kavita Kumari, District Planning Officer, Jamui. More than 100 aanganbadi sewika, 10 child development programme officers (CDPOs) of the district along with 120 farm women were trained on nutritional garden during poshan maah. The vegetable seed and required plant saplings for the establishment of a nutritional garden were made available to all the participants with the support of IFFCO.

## Field Day

KVK has demonstrated 16 different technologies in the field of Agriculture this year under FLD. It conducted 08 field day covering Rice crop in the month of Oct. 2020. The technologies demonstrated under rice was the Performance of drought & aerobic genotype as *Swarn Shreya*, *Swarn Samridhi* & *Swarn Shakti*. These variety were evaluated by KVK in cooperation with ICAR RCER, Patna. At the same time, Turmeric cultivation for variety Rajendra Sonia and Cucumber cultivation in variety Bharatmata was demonstrated.

## Kisan Diwas

On the occasion of Kisan Diwas, KVK conducted Kisan Goshthi-cum-Animal Health camp at village Pakri. This programme was graced by Sri. Narendra Singh, Hon'ble Ex-Minister for Agriculture, Govt. of Bihar. Another Kisan Goshthi was conducted at vill. Guguldeeh on the same day. All the participants were presented with a fruit plant sapling as a token of honor from the KVK.

## World Soil Day

World soil day was celebrated by KVK in village Vamdah of block-Chakai on December 5, 2020. A lecture was delivered on importance of soil testing in agriculture. It was also informed that, soil testing is going on in KVK Jamui & farmers can get its benefit. All the participants were presented with a fruit plant sapling as a token of honor from the KVK.



## Vigilance Awareness week

Vigilance Awareness week from 27 Oct. to 02 Nov. 2020 was celebrated at KVK, Jamui in light of "सतर्क भारत-समृद्ध भारत" a special programme was conducted by the KVK in village Kundari of block Jamui. On this occasion lecture was delivered on *National Vigilance Structure* by social worker Mr. Vimal Kumar, Secretary, Gram Bharati. More than 50 farmers participated.

## Mahila Kisan Diwas



Mahila Kisan Diwas was celebrated by KVK, Jamui on October 15, 2020. A session on "Role of farm women in Agri. based entrepreneur" was conducted. Young girls of farming community were exposed with the skill development training programmes organized by the KVK round of the year. Total 64 farm women participated in the event.



## Kisan Chaupal

Four Kisan Chaupal were conducted in different blocks of Jamui with participation of 298 farmers. Sri Sumit Kumar Singh, Hon'ble MLA Chakai graced the occasion as chief guest in the programme conducted at vill. Ghormo.

## Climate Resilient agriculture Project

This project was started from Rabi season 2020. KVK, Jamui created a cluster of 05 villages namely Kundari, Kakkan, Kharsari, Manjosh & lakhanpur. The technologies demonstrated in this project is as follows:

1	Zero Tillage wheat	222 acre
2	Raised Bed Wheat	12 acre
3	Raised Bed Mustard	15 acre
4	Raised Bed Maize	25 acre
5	ZT Chikpea	40 acre
6	Zero Tillage Lentil	90 acre

## Scientific Advisory Committee meeting

The Scientific Advisory Committee (SAC) meeting of KVK Jamui was conducted on November 4, 2020. The annual report of FY 2019-20 as well as action plan for FY 2020-21 was discussed. The meeting was chaired by Dr. Rameshwar Singh, Hon'ble Vice Chancellor, BASU Patna. Director ICAR ATARI, Director Extension Education, BASU and line department district level officers i.e. District Agriculture officer, District Horticulture officer, District Animal Husbandry officer, District Fisheries officer, Project Director ATMA, Deputy Director Soil Conservation, District Planning officer & farmers representatives Mrs. Daymanti Devi, Mr. Vipin Kumar were present on the occasion & shared their experience in formulation of action plan.

## DAMU-GKMS Project

KVK organizes farmers awareness Programme-FAP for farmers and extension workers on climate based information and advisory, it is sent by the KVK twice in a week to the farmers group of each block separately. KVK conducted 12 FAP covering 361 farmers under this project from July to Dec. 2020.



## Agriculture Education Day

Agriculture Education Day was celebrated by KVK on December 3, 2020. Mr. Avinash Kumar Sinha, Ex-Agriculture Commissioner, Govt. of India delivered a lecture on "Potential of Agriculture education in making India a developed country".



*Demonstration on bed Plantation method of mustard*



*"Method demonstration on seed treatment in Rice" at vill. Mahuligarh*



*University officers addressing the farmers in a program organized on the occasion of Kisan Diwas at Jamui*

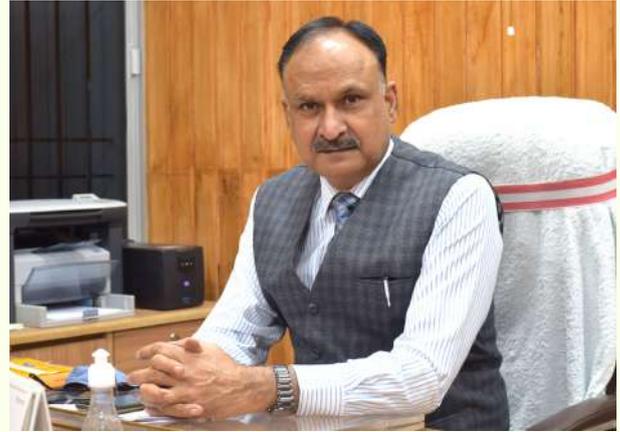


*University officers addressing the farmers in a program organized on the occasion of Kisan Diwas at Jamui*



## Professor Satish Kumar Garg took over as Registrar, BASU

Professor Satish Kumar Garg took the charge of Registrar at Bihar Animal Sciences University, Patna on 29th of October 2020. This post was left vacant after the resignation of former Registrar Dr. P.K Kapoor, applications were invited to fill the post under which Professor Garg was found to be most suitable and was appointed. Prior to his contribution to Bihar Animal Sciences University, Professor Garg served as the Dean, Veterinary College as well as headed the Department of Pharmacology and Toxicology at Uttar Pradesh Pandit Deen Dayal Upadhyaya Pashu Chikitsa Vigyan Vishwavidyalaya Evam Go-Anusandhan Sansthan, Mathura. Starting his career as a Veterinary Officer in Animal Husbandry Department, Government of Haryana, Prof. Garg has held many important positions. He has published four books to his name, 180 research papers, and several articles. Dr. Garg has 11 years of experience as a dean, as well as serving as head of department for nearly 16 years.



## Successful operation of tumors weighing one and a half times the weight of mice



A mice was operated in the Veterinary Surgery Department of Bihar Veterinary College, Patna. The rat had a small tumor in its abdomen region when it was brought in for the treatment. X-ray of the rat was done and it was found that there is tumor in the internal part of the stomach of the rat. Dr. Ramesh Tiwari, Dr. Gyan Dev Singh and PG student Agyay Pushp performed the operation of the rat.



Isoflurane inhalant anesthesia was used in surgery. Dr. Ramesh Tiwari said that the use of anesthesia in small animals can be dangerous and there is a fear of loss to the life. But, with the efforts of doctor's successful operation of the rat was done. Surprisingly, the tumor weighs 145 grams while the rat weighs 105 grams. After surgery, the rat was kept under observation for 2 hours and was handed over to owner after complete recovery.

## Philanthropic Approach

### Society for Promotion of Farm and Companion Animals (SPFCA)



Establishment of Society for Promotion of Farm and Companion Animals, It was in the year 2018 when the Vice-Chancellor of Bihar Animal Sciences University, Dr. Rameshwar Singh suggested the formation of a platform which would promote compassionate animal keeping and provide education to encourage animal welfare. It was his brainchild to constitute a society which would conduct events and create a platform to foster and promote human-animal interaction. Later in the year 2019 a general body meeting was held and under the presidency of Dr. J.K. Prasad, Dean Bihar Veterinary College, Patna and the "Society for Promotion of Farm and Companion Animals" SPFCA was established. A core committee of 9 executive members was established, where, the Hon'ble Vice-Chancellor Dr. Rameshwar Singh was appointed as the Patron, Dr. J.K. Prasad, Dean Bihar Veterinary College was appointed as the President, The Dean Students Welfare Dr. Raman Trivedi and Director Research Dr. Ravindra Kumar were appointed as Vice-Presidents. Dr. Rakesh Kumar, Associate Professor, Sanjay Gandhi Institute of Dairy Technology, Patna was appointed as the secretary. Dr. Pallav Shekhar and Dr. Kaushal Kumar, Assistant Professors, BVC, Patna were appointed as Joint Secretaries. Dr. K.G. Mandal, Professor, Bihar Veterinary College was appointed as the treasurer and Dr. Gargi Mahapatra, Assistant Professor, BVC was appointed as the core member of the SPFCA. It was the sweat and toil of the Joint Secretary Dr. Kaushal Kumar who registered this society under the society registration act 21,1860.

पहल • अब बिहार में ही मछली की बीमारी और कुपोषण की हो सकेगी जांच किशनगंज फिशरीज कॉलेज में 10 करोड़ से बनेगी अत्याधुनिक लैब

पटना 10-09-2020
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एग्रीकल्चरल एजुकेशन डे के रूप में मनाया गया डॉ. राजेंद्र प्रसाद का जन्म दिवस

कुलवारीशरीफ। भारत के प्रथम राष्ट्रीय डॉ. राजेंद्र प्रसाद को जयंती बिहार पशु विज्ञान विश्वविद्यालय में



एग्रीकल्चरल एजुकेशन डे के रूप में मनाया गया। इस अवसर पर कुलपति और सचिव ने कार्यक्रम को संबोधित किया।

कुलपति और सचिव ने कार्यक्रम को संबोधित किया। डॉ. राजेंद्र प्रसाद का जन्म दिवस एग्रीकल्चरल एजुकेशन डे के रूप में मनाया गया।

इस अवसर पर कुलपति और सचिव ने कार्यक्रम को संबोधित किया। डॉ. राजेंद्र प्रसाद का जन्म दिवस एग्रीकल्चरल एजुकेशन डे के रूप में मनाया गया।

जिलों में स्थापित होंगे पशु विज्ञान केंद्र, पशुपालन को मिलेगा बढ़ावा

पशु विज्ञान विश्वविद्यालय के कुलपति डॉ. रामेश्वर सिंह ने कहा कि जिलों में स्थापित होंगे पशु विज्ञान केंद्र, पशुपालन को मिलेगा बढ़ावा।



डॉ. रामेश्वर सिंह ने कहा कि जिलों में स्थापित होंगे पशु विज्ञान केंद्र, पशुपालन को मिलेगा बढ़ावा।

डिवस समारोह को संबोधित कर रहे थे। पशु एवं मत्स्य संसाधन सचिव डॉ. एन. सखन कुमार ने कहा कि जिलों में स्थापित होंगे पशु विज्ञान केंद्र, पशुपालन को मिलेगा बढ़ावा।

बीफ न्यूज



कार्यक्रम को संबोधित करते मंत्री मुकेश सहनी। पशु विज्ञान विवि अपने काम से पहचान बनाये: सहनी

पटना. पशु एवं मत्स्य संसाधन विभाग के मंत्री मुकेश सहनी ने शनिवार को बिहार पशु विज्ञान विश्वविद्यालय पटना का दौरा कर अधिकारियों को बेहतर कार्य के निर्देश दिये। उन्होंने कहा कि हम अपने विभाग को काम के बंदौलत आगे ले जाना चाहते हैं।

105 ग्राम के चूहे में 145 ग्राम का निकला ट्यूमर



बिहार पशु चिकित्सा कॉलेज के पशु शल्य चिकित्सा विभाग ने अधिस्तन कर चूहे का ट्यूमर निकाला गया। चूहे को जब इलाज के लिए लाया गया था तब इसके पेट/अंतर्विषुम रीजन में छोटा सा ट्यूमर था, लेकिन बाद में इसका आकार बढ़ता गया।

चूहे को जब इलाज के लिए लाया गया था तब इसके पेट/अंतर्विषुम रीजन में छोटा सा ट्यूमर था, लेकिन बाद में इसका आकार बढ़ता गया। एक्सरैज में क्या गया की चूहे के पेट का कोई आकार अंग नहीं है, तबका इलाज रोकना शिवाय व डॉक्टर जानबूझ रिस्क टैक में चूहे का अधिस्तन किया।

सजावटी मछली के क्षेत्र में रोजगार की संभावना : सचिव

पटना/कार्यालय संबदादाता। पशु विज्ञान विश्वविद्यालय के अंगीभूत मास्टिकी महाविद्यालय, किशनगंज द्वारा सजावटी मछली के उद्यम का विचार में स्कोप विषय पर दो दिवसीय वेबिनार का आयोजन किया गया।



डॉ. अनिल कुमार ने कहा कि पशु विज्ञान विश्वविद्यालय के कुलपति डॉ. रामेश्वर सिंह ने स्कोप विषय पर दो दिवसीय वेबिनार का आयोजन किया गया।

चिन्तित किया गया है, और ऑनोमेटल फिश फार्मिंग के विकास के लिए काम करने पर रहे हैं। सहायक निदेशक निषाद अहमद ने कहा कि ऑनोमेटल फिश पर बहुत काम करना चाहिए है, विभागा द्वारा 2015 में कराए गए सर्वे से पता चला कि बिहार में 80 प्रजातियों के नेटिव ऑनोमेटल स्पेसिंस हैं, जिसको किसान पैदा करते हैं और लोकल मार्केट में बेच देते हैं।

सोनपुर में पशुओं की स्वास्थ्य जांच को ले दो स्थानों पर लगा कैम्प

उपान्त/मार्क प्रतिनिधि। सोनपुर के बाघ प्रशासन क्षेत्र में पशुओं की स्वास्थ्य जांच को ले दो स्थानों पर लगा कैम्प



सोनपुर के बाघ प्रशासन क्षेत्र में पशुओं की स्वास्थ्य जांच को ले दो स्थानों पर लगा कैम्प

पशुपालकों को कार्यक्रम को सराहा

उपान्त/मार्क प्रतिनिधि। पशुपालकों को कार्यक्रम को सराहा

उपान्त/मार्क प्रतिनिधि। पशुपालकों को कार्यक्रम को सराहा

बिहार पशु विज्ञान विश्वविद्यालय ने मनाया अपना तीसरा स्थापना दिवस कृषि, पशुपालन में तेजी से बढ़ रहा बिहार: प्रेम

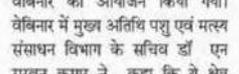
लखनऊ रिपोर्टर/पटना/पुनर्वाचार/संवादकर्ता। बिहार पशु विज्ञान विश्वविद्यालय ने अपना तीसरा स्थापना दिवस मनाया।



बिहार पशु विज्ञान विश्वविद्यालय ने अपना तीसरा स्थापना दिवस मनाया। कुलपति डॉ. रामेश्वर सिंह ने कहा कि जिलों में स्थापित होंगे पशु विज्ञान केंद्र, पशुपालन को मिलेगा बढ़ावा।

देश की अर्थव्यवस्था में पशुधन का बड़ा योगदान : डॉ. त्रिपाठी

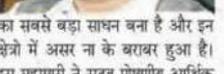
उपान्त/मार्क प्रतिनिधि। देश की अर्थव्यवस्था में पशुधन का बड़ा योगदान : डॉ. त्रिपाठी



डॉ. त्रिपाठी ने कहा कि पशुधन का बड़ा योगदान है। पशुधन का बड़ा योगदान है।

पटना बिहार पशु विज्ञान विश्वविद्यालय में पशु चिकित्सा विज्ञान और पशुपालन स्नातक के 2015 वैच के 28 छात्र एवं 5 छात्रों को ऑनलाइन शपथ दिलाई गई।

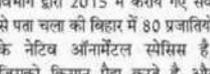
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मनाया गया पशु चिकित्सक दिवस

पटना बिहार पशु विज्ञान विश्वविद्यालय में पशु चिकित्सक दिवस मनाया गया।



पटना बिहार पशु विज्ञान विश्वविद्यालय में पशु चिकित्सक दिवस मनाया गया।