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THE GOVERNMENT COMMITTED TO ADDRESS THE PROBLEMS OF COMMON MAN AND TO MOVE THE COUNTRY TOWARDS PROSPERITY: PUNJAB EXCISE MINISTER HAFIZ MUNTAZ AHMAD

Faisalabad: Punjab Excise Minister Hafiz Muntaz Ahmad on Thursday said that the government was committed to address the problems of common man and to move the country towards prosperity.



He was talking to University of Agriculture Faisalabad senior most professor and Dean Veterinary Sciences Dr Zafar Iqbal Randhawa. Registrar Mohammad Hanuman was also present on the occasion.

He said that lack of awareness about modern agricultural technologies among farmers, community was starting getting full benefit from our potential and it is responsible to increase our per acre low productivity compared to the rest of the world. He also recommended opening up UAF sub-campus in Samundri in order to provide modern agricultural education to students at their doorstep. He added that quality education and research works were imperative for the uplift and the development of the area.

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Dr Zafar Iqbal Randhawa said that the UAF was targeting up sub-campus in Toba Tek Singh, Burewala, and Okara, Dera�ular. He said that we had the potential to open up new sub-campus in Samundri also. He added that the agriculture was backbone of our economy that is contributing 20 percent to the Gross Domestic Product.

He lauded the initiative of government of launching a massive plantation campaign that will begin from September 2, 2018 to ad-

dress the issue of the climate changes. He said that we have to turn the areas especially at the bank of canal bank green. He said that people with the rural background can easily witness effects at the bank of canal tree and our four back. But now the situation has changed. He said that UAF would love to be a part of this nation building move for actual contribution being a community of more than 40,000 people. He said that we can make the bank of canal bank green 100 kilometers radius.

USAID AND UVAS HOST SEMINAR: WEINSPIRE INVESTING IN WOMEN AND THE RURAL ECONOMY

Lahore: USAID Deputy Mission Director Clay Epperson, Additional Secretary Livestock and Dairy Development Department (LADD) Government of Punjab Khalid Mehmood Chaudhary, and Vice Chancellor University of Veterinary and Animal Sciences (UVAS) Prof Dr Talat Naseer Pasha participated in a seminar held at UVAS today to discuss the accomplishments of the Women Empowerment in South Punjab through Investment in Rural Economy (WEinSPIRE) initiative launched last year by USAID's Punjab Enabling Environment Project (PEEP).

WEinSPIRE empowers women involved in the livestock sector of South Punjab by facilitating linkages between public and private sector stakeholders.

Partners in this initiative



include the Women's Chamber of Commerce and Industry Bahawalpur (WCCI), the NRSF Microfinance Bank Ltd, three Livestock Breeders' Associations, UVAS, Telcoor Pakistan, and LADD, Government of Punjab.

On the same occasion USAID PEEP signed a Memorandum of Understanding with the First Women Bank Limited to formalize the bank's partnership with the WEinSPIRE initiative. Also, USAID Deputy Mission Director Clay Epperson, VC UVAS Prof Dr Talat Naseer Pasha, and Additional Secretary LADD Government of Punjab Khalid Mehmood Chaudhary attended three bird book for Naati, Boota and Lohi Livestock Breeders Welfare Societies to promote animal record keeping and traceability necessary for improved international market access.

Speaking at the seminar,

USAID Deputy Mission Director Clay Epperson said, "Promoting women's economic empowerment can be challenging. USAID has developed a creative and powerful platform through WEinSPIRE, which involves mobilizing a unique network of partners in reaching out to women livestock farmers to help improve their access to markets, finance, information, and veterinary services, all essential ingredients of a functional rural market system." Since WEinSPIRE was launched in 2017, hundreds of rural women farmers have joined partner livestock associations, more than 2,000

women have been trained in improved animal husbandry practices, and over 30,000 have received microloans from banks to initiate or expand their livestock businesses.

Speaking at the event, Additional Secretary LADD Khalid Mehmood said, "Women play a pivotal role in Pakistan's livestock sector; they will be able to see wider socioeconomic benefits of the initiative through enhanced livestock rearing, training opportunities at their doorstep offered by the Livestock department. GoI is part of WEinSPIRE. USAID's Punjab Enabling Environment Project is a

five-year, \$15 million project to spur investment and improve the business environment in the livestock and agricultural sectors of Punjab.

UVAS Vice Chancellor Prof Dr Talat Naseer Pasha said, "Empowering women in livestock can help boost Pakistan's domestic economy. This initiative will build the capacity of female livestock farmers to enhance the meat and milk production potential of indigenous livestock breeds and improve their entrepreneurial capacities and capabilities."

Other participants were present at the event included Provincial Director USAID Lahore Lea Swanson, Agriculture Advisor USAID Lahore Asadullah Khan, Ragonur Livestock Breeding Services Authority And Saleem Sulta, President First Women Bank Tablets Raza, General Secretary Women Chamber of Commerce and Industry Bahawalpur Jaha Ata Abbasi and Chairman Naati Goat Breeders Welfare Society Malik Hamza.

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LOW RATIO OF MOTHER FEED INFANTS WAS CAUSING PHYSICAL AND MENTAL DISABILITY FOR INFANT AND IT IS ONE OF PRIMARY CAUSE OF MALNUTRITION IN THE COUNTRY

Faisalabad: Speakers at a seminar on Friday showed their concern that that low ratio of mother feed infants was causing physical and mental disability for infant and it is one of primary cause of malnutrition in the country.

They were talking at a walk held in conjunction with World Breastfeeding Week. It was arranged by Faculty of Food, Nutrition and Home Sciences, UAF in collaboration with Integrated Reproductive Maternal Newborn Child Health and Nutrition, Government of Punjab at the National Institute of Food Sciences and Tech-

nology (NIFSAT) UAF. Faculty Dr. Masood Sadiq Butt said that low ratio of mother feed causes diseases such as diarrhea, anemia, rickets, Wasting to root out such misconception among the society. He stressed upon need to educate the people about the issue.

Dr. Benish Sarwar said that newborn must be mother fed within the 30 minutes of the mouth. She said that mother feed was essential not only for physical health of infant but also for mental ability.

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HIDES RATES PLUNGE AFTER SLOW RESPONSE FROM TANNERIES

KOHAT: The prices of hides have plunged by 80 to 90 per cent due to very slow response by the tanneries, thus causing heavy losses to the people associated with the business.

The businesses have not yet transported the hides to tanneries in Kohat in the hope that the prices may rise to some extent and have stamped them in their warehouses at very slow.

The tanneries and welfare organisations, which collected hides once a year to sell them to pay salaries and not the businesses, have also been affected by the decline in hide prices.

The caretaker of a tannery said earlier when the business was at its peak they sold dotted hides for more than Rs1 million but now the same number of hides raised only Rs20,000.

One Guler, who deals with hides in the chicken market, told Dawn that the buffalo hide which was priced at Rs40,000 to Rs60,000 in 2010 came down sharply to Rs2,500 in 2015, but during the last two years it has dic-



not much interested in purchasing hides.

Guler said the government had done nothing to save their business. He said that earlier the damaged hide could also fetch half the rate but now it was disposed of because tanneries did not buy them. Their profit margin has come down to 20-30 per cent from Rs50 per hide, he maintained.

Guler said, and they had been sold by the tannery owners that since the cheap artificial leather from China had occupied the market which was much cheaper than the original product, they were

not much interested in purchasing hides.

Similarly, he said the hides of donkeys were purchased by the tanneries as China was importing them from all over the world because it was cheaper and produced good leather.

Shahid Khan, a businessman, said instead of doing hide business he had established his own factory to produce a range of expandable leather products and was earning huge profits.

He said that only few hide business had survived and the manufactured products still had good international and local response.

AGRICULTURAL POLLUTANTS WORSEN WATER CRISIS IN SINDH

F.H. MUGHAL



AGRICULTURE, pollutants pose a major threat to the surface water, flora and the health of the people living in Sindh.

Almost all surface water bodies in Sindh like Photali Canal, Kalri Baghar Feeder, Pindari Canal, Nara Canal, Robi Canal, Rori Canal, Ghodki Feeder, Dadri Canal and Pat Feeder get contaminated by these pollutants.

The Photali Canal and Kalri Baghar Feeder are further affected by the discharge of industrial and municipal wastewater. The canal network system in Sindh is surrounded by land used for agriculture. The discharge or overflow from these lands flows directly into surface water bodies.

This has worsened the water crisis by leading to deterioration in water quality, thus reducing the volume of water that can be used. Agricultural pollutants typically comprise sediments, nitrates, pesticides, nitrites, phosphorus and heavy metals.

Heavy metals such as cadmium, cobalt, copper, nickel, lead, zinc, iron and manganese are found in a number of commercial mineral fertilisers, industrial sludge, animal feed additives, and in some pesticides, herbicides and fungicides. Pollutants contain dangerous heavy metals such as cadmium, copper, nickel, lead, zinc, and iron, which require costly advanced water treatment systems not available in Sindh.

The problem with heavy metals is that they require costly advanced water treatment systems (ultrafiltration, precipitation, biological oxidation, activated carbon, ionization and ion exchange), which are not available in the water treatment plants in Sindh.

As a result, these pollutants are able to pass through the water treatment systems, ending up in household water storage systems. Drinking water contaminated by heavy metals leads to serious health problems. In infants it can cause methem-

oglobinemia, or blue-baby syndrome, which can be fatal.

In Pakistan, agriculture related regulations do not mention include agricultural pollutants. The Sindh Environmental Quality Standard of the Sindh Environmental Protection Agency (SEPA) mention a permissible standard of 0.15 milligrams per litre (mg/L) for discharge in inland waters. The SEPA has no power to enforce the pesticide standard, but in doing so.

While the Sindh EPA is responsible for the discharge of agricultural effluent into the surface water, the surface water bodies are the responsibility of the Sindh irrigation department.

While agriculture practices are the responsibility of the Sindh agriculture department.

The three institutions need to work together to control the agricultural pollutants, and to achieve the Sustainable Development Goal Target 6.3, which states "By 2030, improve water quality by reducing pollution, eliminating dumping and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater".

The three institutions can use their respective regulations to control the pollutants. For example, in British Columbia, the westernmost province of Canada, the Health Act and Sanitary Regulations are applied to farms waste on matters of nuisance, conditions affecting human health, and stream pollution.

Another act, the Municipal Act, gives municipal councils certain powers to pass bylaws regarding nuisance conditions, locations of live stock operations, and property line setback distances.

Published in Dawn, The Business & Finance Weekly

E-COLI INFECTION IN HUMANS LINKED TO POULTRY

Research published this week has found that a strain of Escherichia coli (E.Coli) found in retail chicken and turkey products could be causing a wide range of infections in humans.

The study, published in the American Society for Microbiology's open access journal mBio, provides evidence that the E.Coli found in fresh poultry products can be passed to people, leading to bladder infections and other serious complications.

Importantly, whether people had acquired them from poultry.

So, they studied the genomes of the E.Coli cells and discovered that almost all of the E.Coli ST131 on the poultry products belonged to a particular strain called ST131-H22 and carried

INSECTS: 3 HEALTHY COMPOUNDS FOR ANIMAL FEED

Insects are promising feedstuffs for animal feeds as they contain not only valuable nutrients but also particular compounds that seem to be able to modulate animal microbiota and to optimise animal health. Here we discuss what they are.



In pigs and broilers, anti-microbial peptides improve growth performance, promotes nutrient digestibility and gut health, positively alters intestinal microbiota, and enhances immune function.

The second beneficial component of insects is chitosan.

Chitosan is a component of the exoskeleton of crustaceans and insects. Chitosan and chitosan derivatives can stimulate innate immune cells.

Feeding chitosan to broilers for example has been shown to inhibit the growth of the foodborne pathogens Escherichia coli and Salmonella in the intestine.

In other trials, chitosan fed broiler chickens resulted in a reduction in body fat and possibly the production of leaner meat. This is due to the hypocholesterolemic and hypophycolerolameric properties of chitosan.

Feeding chitosan to laying hens that were fed about 1.02g per day of chitosan provided by dietary black soldier fly larvae insect meal showed enhanced immune response and a better disease resistance.

In fact, research showed that black soldier fly prepupal oil (0.5g C12:0/100 mg) suppressed growth of lactic acid bacteria with the most substantial antibacterial effects against *C. tetragastricus* infections in pigs.

3. Antimicrobial peptides.

The third healthy ingredient of insects are the antimicrobial peptides.

The great diversity of antimicrobial peptides are found in insects and until now, more than 350 insect proteins

with antimicrobial activity have been identified and

www.ncbi.nlm.nih.gov

can be classified as follows:

1. o-peptides (e.g. cyclopexin and moricin)

2. cysteine-rich peptides (e.g. insect defensin and diapriocin)

3. proline-rich peptides (e.g. apolide, diapriocin, and leucotaxin)

4. glycine-rich proteins (e.g. aminocin and glorivillin) (Orton, 2000).

In pigs and broilers antimicrobial peptides improve growth performance, promotes nutrient digestibility and gut health, positively alters intestinal microbiota, and enhances immune function.

The new robotic feed pusher from DeLaval relieves and repositions feed onto the feed table. This new approach increases feed intake, reduces feed waste and helps farmers to use the time saved on the jobs that make a difference to the farm.

DELAVAL INTRODUCES NEW ROBOTIC FEED PUSHER



Trevor DeVries, Professor and Canada Research Chair in Dairy Cattle Behaviour and Welfare, University of Guelph.

The new feed pusher has the option to add a concentrate dispenser. It can also automatically handle different amounts of feed as well as several feed types, including any kind of total mix ratio (TMR), straw, hay or fresh grass.

Additionally, the feed pusher can be used in a wide range of situations, including barns with 5% slopes and different width alleys, as well as barns with multi-pitch barns.

Simple maintenance.

There are few parts that need to be cleaned, with no requirement for greasing. It is also available with DeLaval InService™ programme, a solution where service, consumables, advisory and everything in between is available. The new feed pusher is available in Europe, the Middle East and Africa, America, Asia and Oceania markets will follow shortly.

AGRI TOURISM DEVELOPMENT CORPORATION OF PAKISTAN

SUSTAINABLE MICROALGAE FEEDS FOR NILE TILAPIA

To address the environmental sustainability concerns regarding aquafeed, a US team has seen the effectiveness of replacing fishmeal and fish oil with different types of marine microalgae in Nile tilapia.

Aquaculture is growing and Nile tilapia (*Oreochromis niloticus*) is a major aquaculture species and the focus of our current research, is predicted to be one of the 2 fastest growing aquaculture products in the next decade and a key driver of US and global consumer demand for farmed fish. Sustainable expansion of aquafeeds, among other things, necessitates finding alternatives to fishmeal and fish oil because of environmental, food security, and financial drawbacks of these ingredients. Alternative ingredients are for example insect meal or microalgae meal.

Microalgae: Several advantages. Marine microalgae production offers several advantages over terrestrial crops: improved land and water-use efficiency due to higher yields per unit input, no need for freshwater and arable land, and lower greenhouse emissions.

Effect on digestibility. The researchers used *N. occultata* whole cells and *N. occultata* co-product by an 8- day nutritional feeding experiment with *N. occultata* co-product in fish feeds requires researchers to find ways to enhance marine digestibility. Developing highly digestible algal ingredients will both improve feed conversion ratios and reduce nutrient loads in fish culture effluents, while also helping drive algae-based aquafeeds towards cost-competitiveness with conventional feed. Towards this goal, the researchers are now focusing on whether the inclusion of 1 or more non-starch polysaccharides and protease enzymes in *N. occultata* co-product diet enhances nutrient digestibility and retention and growth and reduces effluent nutrient loading in Nile tilapia.



Developing highly digestible algal ingredients will both improve feed conversion ratios and reduce nutrient loads in fish culture effluents, while also helping drive algae-based aquafeeds towards cost-competitiveness with conventional feed.

Byline:

The Department research team's latest work replaces fishmeal with a marine microalgae co-product, *Nannochloropsis occultata*, which is rich in both protein and omega-3 fatty acids, including eicosapentaenoic acid, that are essential to fish

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