

Release of IVRI Technologies by Shri Radha Mohan Singh Ji, Hon'ble Union Minister of Agriculture & Farmers Welfare , GOI on the occasion of Annual Conference of Vice chancellors of Agricultural Universities and Directors of ICAR Institutes at A.P. Shinde Symposium Hall, NASC Complex, New Delhi on 8th March 2018

On the occasion of Annual Conference of Vice Chancellors of Agricultural Universities and Directors of ICAR Institutes; Hon'ble Union Minister of Agriculture & Farmers Welfare Sh. Radha Mohan Singh Ji released one crossbred pig variety, two mobile apps and one ELISA kit developed by ICAR-Indian Veterinary Research Institute, Izatnagar at A.P. Shinde Symposium Hall, NASC Complex, New Delhi on 8th March 2018.



1. Landlly: A crossbred pig variety for North India

IVRI, Izatnagar developed a new variety of crossbred pig named Landlly, utilizing foundation stock of purebred Landrace and Bareilly local. These pigs maintain 75 % blood level of Landrace and 25 % blood level of Bareilly local. They are characterized with white color with occasional black spots (1-5%), minimum fine hair coat, long snout, medium ear, straight body top line, strong legs, cylindrical barrel and wrinkle free body with moderate fat. Landlly pigs have 6 -8 pair of teat. This variety of pig has performed well under farm and field



conditions. The average litter size at weaning was 7.5 ± 0.3 at Institute Swine Production Farm and sows farrow two times a year. Landlly recorded a higher growth rate (pre weaning 178.2 gm per day; post weaning 487.0 gm per day) along with higher weight (102.7 ± 3.5 kg) at marketable age of 8 months. The dressing percent averaged 70.7 ± 0.50 in Landlly pigs. The average litter size at weaning at farmer's field ranged between 7 and 8. The weight at marketable age of 8 months ranged between 73 to 90 kg. Although, Landlly best performed with complete concentrate feeding, however this can also be reared successfully with suitable replacement (up to 15 %) with kitchen waste, vegetable waste and agro industrial byproducts like sugarcane press mud etc.

2. IVRI-M PPRV Antigen capture ELISA kit

IVRI has developed the improved recombinant N antigen-based sandwich ELISA (IVRI-M PPRV Antigen capture ELISA kit) with a more sensitive homologous capture antibody. Although the currently used sandwich ELISA kit is a successful technology and got well accepted across India, it has two major issues namely a) it employs whole live virus as antigen in the control panel and the production of the whole virus-based control antigen is a cumbersome procedure. Further, the control programme in India is in the mid-way of PPR eradication, use of live virus particles in diagnostic kits will not be allowed after acquiring the PPR free status. Improving the conventional diagnostic kits through recombinant technology would help in saving money and time. b) The kit uses a lower sensitive heterologous capture antibody in the assay which needs to be replaced with a more sensitive homologous capture antibody.



3. IVRI – Pashu Prajanan (Animal Reproduction) App

IVRI-Pashu Prajanan (Animal Reproduction) App has been designed and developed by ICAR-IVRI, Izatnagar in collaboration with ICAR-IASRI, New Delhi to impart knowledge and act as a ready recokner for the Graduating Veterinarians, Field Veterinary Officers and Livestock Entrepreneurs about reproductive problems of cattle and buffaloes and measures to treat and control them. The major objective of this app is to educate the end users on the various reproductive diseases/disorders, their causes, symptoms, treatment and prevention. The App offers information about reproductive diseases/disorders in cattle and buffaloes viz., Anoestrus, Repeat Breeding, Silent Estrus/Silent Heat, Uterine Torsion, Dystocia, Abortion, Uterine Prolapse, Retention of Foetal Membranes/ Placenta, Metritis, Brucellosis, Campylobacteriosis and IBR-IPV which leads to economic losses. It also provides basic information on Heat detection and Artificial Insemination. It is an offline app with 13.5 MB size developed for Android platforms. The information contained in the App is presently in 7 languages viz., Hindi, English, Punjabi, Bangla, Assamese, Gujarati & Tamil . Further language conversion for Kannada, Telugu, Malyalam, Marathi and Oriya have been



completed and will be uploaded soon. The user ratings available on the Google Play store show a very good rating of 4.7 out of 5.0 and has received excellent and motivating reviews from the users which can be seen at the Play Store.

4. IVRI – Shukar Palan (Pig Farming) App

The IVRI- Shukar Palan (Pig Farming) App, designed and developed by ICAR-IVRI, Izatnagar and IASRI New Delhi is targeted to impart scientific knowledge and skills to the Graduating Veterinarians, Field Veterinary Officers, Developmental Organizations and entrepreneurs for promoting commercial pig farming. This is an educational app providing information on all the aspects of scientific pig farming from selection of the right breed of pig to its housing, scientific feeding, low cost feeding, breeding management and complete health care and general management. The App also provides information about various centres in the country from where the entrepreneurs can procure or market pigs / piglets of specific breeds. The App additionally provides support for development of commercial pig farming projects of various sizes (10 sows+2 boars; 20 sows +2 boars; 50 sows + 4 boars; 100 sows + 5 boars). The App also provides answers to FAQs and Do's and Don'ts for each segment of pig farming. Thus, the Pig Farming App is a complete guide for the establishment of a pig farm on scientific lines in the country. It is an offline app of 5.5 MB size developed for Android platforms. The information contained in the App is presently in Hindi language, and its English version is being prepared. As per user ratings available on the Google Play store, the app has received excellent rating of 5.0 out of 5.0 and motivating reviews from the users which can be seen at the Play Store.

