

Details of ETT project

Establishment of Embryo Transfer Technology (ETT) Laboratory with IVF facility to enhance Milk Production and Productivity among Non-descript and descript breeds of Bihar

Date of Sanction: 20.08.2018

Date of Implementation: 03.01.2019

Project Period: 03 years

Project Cost: 2014 Lakh

Principal Investigator (P.I.) – Dr. Ravindra Kumar, Director Research, BASU, Patna

Co-PI's – Dr. J. K. Prasad, Dean, BVC, Patna
Dr. Pramod Kumar, Asstt. Professor
Dr. C. S. Azad, Asstt. Professor
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Dr Dushyant Yadav, Asstt Prof. LFC

Research Mandate

- To produce embryos of Sahiwal, Bachaur, Gangatiri and Red Sindhi for field embryo transfer program for preparation of Indigenous breeds of cattle at farmers door step.
- Faster multiplication of elite indigenous cattle through production of embryos by OPU-IVF technique.
- To produce elite bull calves and replacement heifers of Indigenous cattle of Sahiwal, Bachaur, Gangatiri and Red Sindhi.
- Establishment of ETT Lab with OPU-IVF-IVC facility, facility for managing donor and recipient cows, calf rearing centre and training centre

Activities & Achievements

- All the essential consumables and equipment' were procured.
- Sahiwal, Bachaur and Red Sindhi cows were procured.
- Procurement of Bachaur Bull is in final stage (Bulls of Bachaur are required due to non-availability of semen of this breed).
- Technical work has been started and in standardization mode
 - Screening of Donar and Recipient cows
 - Sperovulation protocols on Sahiwal and Bachaur cattle
 - Flushing of superovulated donar cows
- Advance stage for Construction of new ETT and IVF Lab in cooperation with Government of Bihar etc.



ETT/IVF renovated building



Systematic functional laboratory





← **Continuous animal Travis**

Squeezable animal Travis →



Herd of Sahiwal & Red Sindhi

Bachhaur



**Different activities of ETT at
Lab. & Farm**

