



**DBT - TANUVAS partnership programme on
Translational Research Platform for Veterinary Biologicals (TRPVB)
CAHS, TANUVAS, Chennai – 51.**



**INVITATION FOR EXPRESSION OF INTEREST (EoI) FOR INCUBATING AT THE
PROPOSED
VETERINARY INCUBATION CENTRE AT TANUVAS**

Translational Research Platform for Veterinary Biologicals (TRPVB) is a unique partnership initiative in the naïve field of translational research between the Department of Biotechnology (DBT), GoI and Tamil Nadu Veterinary and Animal Sciences University (TANUVAS), a premiere State Veterinary University (www.trpvb.org.in).

The vision of TRPVB-TANUVAS is “to foster ‘Productization’ in the field of Veterinary Biologicals by converging the presently distant academic research, industry and pathways of regulatory compliance”. Its mission is to “translate veterinary vaccines, diagnostics and other biologicals for field application and harness their benefit to improve animal health and productivity thereby augmenting the economic status of farmers”.

TRPVB-TANUVAS has taken infant steps in bridging the translational disconnect between academia, industry and regulation in the last 5 years. In that quest to create a participatory ecosystem for industries, TRPVB-TANUVAS proposes to set up a **Veterinary Incubation Centre at TANUVAS** with funding support from the Tamil Nadu Manufacturing Business Incubation Infrastructure Development Project, Entrepreneurship Development & Innovation Institute of Tamil Nadu (EDII -TN), to leverage the infrastructure facilities and expertise of TRPVB and TANUVAS for the benefit of industry, students, entrepreneurs, start-up companies, individuals etc.

Infrastructural facilities available at TRPVB

- High end instruments like Flow cytometer with sorter, live animal imager, confocal microscope, freeze drier (pilot scale), microbial fermentor, bactec system, HPLC, 2 D gel electrophoresis, multimode reader, real time PCR, Ultra centrifuge, etc.,
- Cell line storage in LN₂ storage system - The LN₂ freezer system has a capacity to store 16,900 numbers of 2ml vials in vapour phase. The storage system is with clearly sorted racks and boxes at a vapour phase. This freezer is attached with TEC 3000 Controller that enables automated monitoring of LN₂ levels and temperature. The system is attached with a 320 lt LN₂ storage container from which the LN₂ level in the cryovial storage container is automatically maintained.
- GLP-Clean room laboratory with ISO class 7 and class 8 air classifications for cell culture, cell banking, specific bioassays, etc.,
- Virology / Bacteriology laboratory capable of handling BSL2 pathogens
- Bacteriology laboratory with a 10 litre scale bioreactor

Expertise available at TRPVB

- Scientists and subject-matter specialists in different areas of veterinary biotechnology and animal sciences who can assist clients in various stages of product development
- TRPVB has performed GLP-compliant studies for various clients such as Kemin industries South Asia Pvt. Ltd., Chennai; National Dairy Development Board, Gujarat, Defense Institute of Physiology and Applied Sciences, Delhi etc.
- TRPVB is jointly developing PPRV vaccine, Nano-NDV and Brucella ELISA along with industrial partners
- We have developed and commercialized various technologies such as collagen-based wound healing cream, Bovine TB kit, ABTChoice kit, Nano Newcastle disease vaccine, collagen based oral delivery system for chickens, Nano egg guard, Brucella blocking ELISA kit, A1A2 genotyping, canine parentage, Nano Heal etc.
- TRPVB has the capability to hand-hold the industries prior to, during and post technology transfer process
- Scientists have good working knowledge in cutting edge technology and frontier areas such as Biosafety, Regulation, Virus-like particles (VLP) vaccine platforms, Point-of-care (POC) diagnostics etc.
- TRPVB has the capability to validate diagnostic kits following the OIE-approved pathways

Based on these infrastructure and expertise, TRPVB -TANUVAS proposes to start a **Veterinary Incubation Centre at TANUVAS (VIC-TANUVAS)**. The interested industry, students, entrepreneurs, start-up companies, individuals etc. can incubate here and would be given office space and in addition they would have access to the following

- Priority for tech transfer of TRPVB products and services
- Priority to access GMP compliant Clean room laboratory and cell storage facilities at nominal cost
- Priority to produce TRPVB products through technology transfer
- Priority to access infrastructure facilities available
- Priority to services offered at TRPVB
- Right of first refusal for technologies developed in-house at TRPVB
- Preference in applying for joint collaborative projects
- Priority in conduct of required studies / validation
- Preference in workshop / training / conferences organized by TRPVB
- Customized training for industry-sponsored personnel in their required areas
- Leveraging expertise in regulation, animal experiments, Biosafety, Nano technology, etc.,

The proposed VIC-TANUVAS is aimed at

- Creation of start-ups for innovative veterinary products including diagnostics, biologicals, farm equipments etc developed by TANUVAS or independently by the incubatee.

- Diagnostic & Clinical services established by TANUVAS to be outsourced for potential incubatees for scaling-up the activity as an agreeable royalty basis (through vendor reach-out). Few of these could be A1/A2 testing, IBR testing, IMHA testing in canines & canine parentage etc.,

In addition the University Innovation and Instrumentation Centre (UIIC), University Research farm, TANUVAS has designed and makes instruments for the need of animal farmers such as goat cages, poultry brooders, Hydroponics Fodder machine, Farrowing crate, Cow trevice, Cow lifting device, etc.

TRPVB invites Expression of Interest (EoI) from interested industry, students, entrepreneurs, start-up companies and individuals etc. to incubate at the proposed (**VIC-TANUVAS**). A format for the same is also enclosed.

The EoI can be sent to the following address to reach before 5.00 pm on 20.10.2017.

The Project Director

Translational Research Platform for Veterinary Biologicals (TRPVB)

2nd Floor, Central University Laboratory (CUL) Building, CAHS

TANUVAS, MMC, Chennai - 600 051

Email: dirtrpvb@tanuvas.org.in Ph : 044 - 2555 6277

**Application for Expression of Interest (EoI) for incubating in the proposed
VIC-TANUVAS**

- 1** Name of the Organization/Entrepreneur :
- 2** Complete address :
- 3** Name of the authorized signatory and contact details :
- 4** Website :
- 5** Area of operation of the company / individual entrepreneur :
- 6** Kind of leverage expected from Incubator :
- 8** Requirement of your company to utilize clean room / cell culture at TRPVB :
- 9** Interest of the company to take up TRPVB products :
- 10** Do they intend to take up provision of services at TRPVB :

Signature with seal