

## **Call for interested industrial partners to work in collaboration with NRCE/ NCVTC for developing bacteriophage therapy against MDR Salmonellosis**

(Through DBT-BIRAC Joint call on Antimicrobial resistance dated 1<sup>st</sup> Oct, 2018)

1. **Name of Technology:** Bacteriophages against MDR Salmonellosis
2. **Name of the Institute:** ICAR-National Research on Centre on Equines (NRCE)
3. **Ownership of the technology:** Indian Council of Agricultural Research (ICAR)

### **Section 1: Contact Information**

#### **4. Contact details:**

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### **Section 2: Technical Description**

#### **5. Technology Details:**

Salmonellosis is an important disease of avian species because of its huge economic impact, worldwide distribution and difficulty posed in the control of the disease. While all motile Salmonellae have zoonotic potential, *Salmonella* Enteritidis and *Salmonella* Typhimurium are most commonly associated with human diseases, for which poultry are a major source. Avian host specific salmonellae include: *Salmonella* Gallinarum and *Salmonella* pullorum which cause fowl typhoid and pullorum disease respectively and are well established cause of severe mortality among chicken. NRCE has developed capabilities for developing therapeutics in the form of bacteriophages against *Salmonella* Gallinarum and other Salmonellae including typhoidal and invasive ones and the selected bacteriophages were found to be biologically active against all *Salmonella* Gallinarum isolates and many of the Typhimurium and Paratyphi isolates. In addition they are effective against *E. coli*. Arsenal of more than five bacteriophages in the library, working against Enterobacteriaceae including *Salmonella* and *E. coli* provides a confidence to develop new innovative therapeutic options for treating Salmonella infections in poultry.

#### **6. Licensing terms**

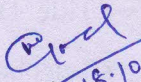
- a. Nature of License: Non-exclusive
- b. Duration of the License: Will be decided after mutual discussion with the interested buyer.



- c. Licensee fee and royalty: Will be decided after mutual discussion with the interested buyer.
- d. Handholding and training support required: Up to 3 Persons nominated by the licensee shall be trained for the period up to 5 days.
- e. Cost for handholding and training: The cost of training to be imparted by the institute will be included in the licensing fee. The expenses for boarding and lodging and travel of the licensee personal shall be borne by the licensee.
- f. Any other specific requirements: All statutory compliances related to production, sales, transportation and storage to be fulfilled by the licensee.

### **Section 3: Certifications and Approvals**

It is certified that the above information about the Technology Nominated for Transfer of Technology is correct and no Security Sensitive/ Confidential and Proprietary information has been provided.

  
18.10.18

I/c ITMU

ICAR-NRCE, Hisar