

Success Story of RKVY Project: “Development of diagnostic assay for molecular epidemiology of NDV and IBDV of poultry”

Scheme no 4034 C (g) ABT 10 OA

Total Sanctioned amount: 55 Lakhs 27.5 lakhs; 1st Instalment 2015-16, 2nd instalment 27.5 lakhs 206-17

Principal Investigator: Dr Joshi V G

Facilities Generated:

1. UV-Vis kinetic mode spectrophotometer



2. Bio-safety Cabinet
3. Refrigerated Centrifuge

Technology Developed:

1. PCR based diagnostic assay for NDV, Virus isolation and Virus culture

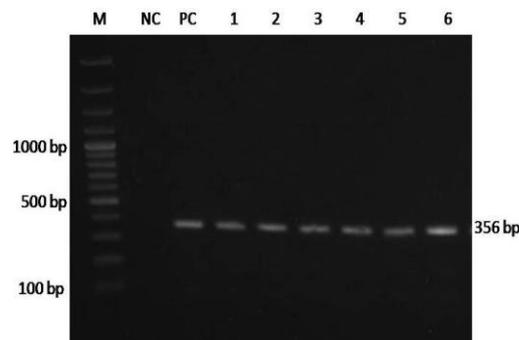


Fig. Agarose gel electrophoresis results illustrating bands at 356 bp for Newcastle disease virus [Lane M: 100 bp plus DNA ladder, Lane 1-6: Samples positive for ND virus, NC: Negative control PC: Positive control]

2. PCR and sequencing of field isolates of NDV was done to identify prevalent pathotype of NDV in Hisar and adjoining regions
3. ND virus was isolated from different samples and characterised for phylogenetic studies

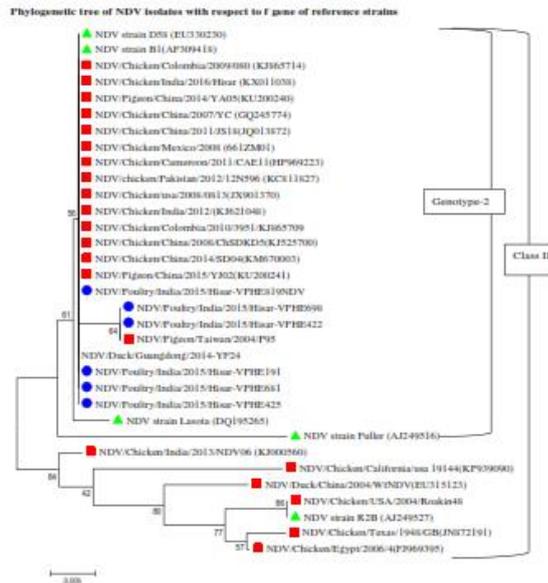


Fig. Phylogenetic Analysis of NDV isolates in Haryana

Academic Contribution: part of MVSC research work of students supported through RKVY project

Beneficiaries: Poultry farmers of Haryana seeking confirmatory diagnosis of NDV

Ref:

Saini. (2015) MVSC thesis submitted in LUVAS