



# National Institute of High Security Animal Diseases

## Training on Laboratory Biosafety and Biosecurity

(30 Jan to 3 Feb, 2023)



### TRAINING BACKGROUND

The training programme aims to provide the professionals involved in handling infectious pathogens and GMOs and those involved in design, construction and management of infectious disease laboratories and biosafety laboratories an insight into the principles of biosafety and the basic requirements for designing and managing biosafety laboratories.

#### Who are eligible ?

1. Personnel from institutes having biosafety laboratories or the institutes/laboratories in process of establishing biosafety laboratories
2. Faculty/scientists in medical/veterinary microbiology/biotechnology and life sciences universities and institutions working with infectious agents in the laboratory setting.
3. Veterinary and Medical and other professionals from disease investigation laboratories and other laboratories involved in handling infectious pathogens and recombinant organisms.

### TRAINING CONTENTS

- Ø Fundamentals of Biosafety: Definitions, Risk Assessment, Levels of Biosafety Laboratories and their relationship with facilities and practices
- Ø Biosafety laboratory facility design and engineering: Architecture, engineering facilities, Air Handling system, effluent treatment system, engineering controls for Different levels of Biosafety Laboratories.
- Ø Laboratory and safety equipment: Operation and safe handling of laboratory equipment, prevention of aerosol release, decontamination of equipment before and after use
- Ø Biosafety Cabinets: Principles, Types of biosafety cabinets, their use, operation and handling of materials inside the Biosafety cabinets.
- Ø Safe working practices in Biorisk areas
- Ø Personal protective equipment: Fundamentals, importance, types of personal protective equipment
- Ø Waste management of the biorisk materials and biomedical waste management regulations
- Ø Packaging, shipping and transportation materials inside and outside the biosafety laboratory
- Ø Biosafety in handling Genetically modified organisms. Rules and regulations in handling and use of GMOs and their release in the environment
- Ø Animal Biosafety and Ethics in animal experimentations

**Training Fees:** Rs. 18000.00 per participant inclusive of taxes and exclusive of Boarding, lodging charges Accommodation on twin sharing basis and boarding facilities available in the Institute's Guest House at nominal rates.

**\*Payment may be done only after the acceptance of the candidature to the training programme and its confirmation by due coordinator.**

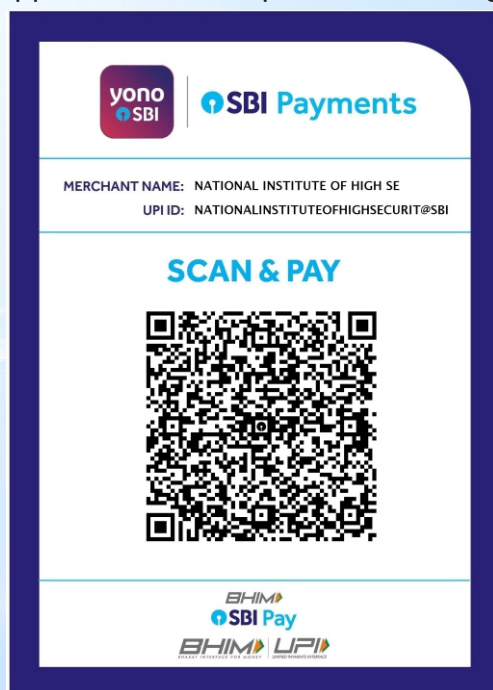
**Payment may be done through:** a) Demand Draft Payable to **ICAR UNIT NIHSAD BHOPAL**  
or  
b) online payment by using the QR Code below.

**Application Submission:** manoj.kumar4@icar.gov.in, anamika.mishra@icar.gov.in

**Last Date of Application:** 15 January, 2023

**Application Form:** [http://www.nihsad.nic.in/assets/Forms/Training\\_form.docx](http://www.nihsad.nic.in/assets/Forms/Training_form.docx)

**\*ICAR Applicants are exempted from training fee**



**PROGRAMME DIRECTOR:**

**DR. A. SANYAL**  
**DIRECTOR**

**PROGRAMME COORDINATOR:**

**DR. H.V. MURUGKAR**  
**PRINCIPAL SCIENTIST**

**PROGRAMME CO-  
COORDINATOR:**

**DR. ANAMIKA MISHRA**  
**PRINCIPAL SCIENTIST**

**DR. MANOJ KUMAR**  
**SENIOR SCIENTIST**

**NATIONAL INSTITUTE OF HIGH SECURITY ANIMAL DISEASES  
INDIAN COUNCIL OF AGRICULTURAL RESEARCH,  
ANAND NAGAR, BHOPAL- 462022 (MP), INDIA.**

