

APPLICATION FORM FOR PARTICIPATION IN TRAINING COURSE

**Conventional and Rapid techniques for the
quality and safety assessment of milk**

[Sponsored by the Government of India's SCSP
[Scheduled Caste Sub Plan] Scheme]

Organized at

**ICAR-National Dairy Research Institute
Karnal-132001 (Haryana) INDIA**

20-29th March 2023

1. Name of the applicant in block letters:
2. Designation:
3. Present Address:

4. Address to which reply should be sent:
(In block letters)
(Give Email ID and phone no.)

1. Permanent address:
2. Date of birth:
3. Sex: Male/ Female
4. Previous training, if any:
5. Mention if you have participated in any training course during the previous years under SCSP scheme
6. Academic records

Sr. No.	Exams passed	subject	year of passing	University

Signature of the applicant

Date

Place

7. Recommendation by forwarding authority:

Signature

Designation

Date

Note: It is mandatory for applicant to submit a soft copy of SC community certificate issued by state/central government and an Aadhaar card with the filled application form for consideration. Submit the soft of application to Dr. Raghu H V (4rvsy.dmndri@gmail.com) before 30th December 2022. The confirmation of participation should be sent before 5th January 2023.

Chief Patron

Dr. Dheer Singh

Director & Vice Chancellor
ICAR-National Dairy Research Institute,
Karnal-132001.

Patron

Dr. A. K. Puniya

Head, Dairy Microbiology Division

Course Director

**Dr. Raghu H. V.
Senior Scientist, DM**

Course Coordinators

**Dr. Naresh Kumar
Dr. A. K. Puniya**

Correspondence

**Dr. Raghu H. V., Senior Scientist
National Referral Centre for Milk quality
and safety, Dairy Microbiology Division,
ICAR-NDRI, Karnal-132001. Haryana.
Contact no. +91-1842259534/ 9466963599
Email: 4rvsy.dmndri@gmail.com**



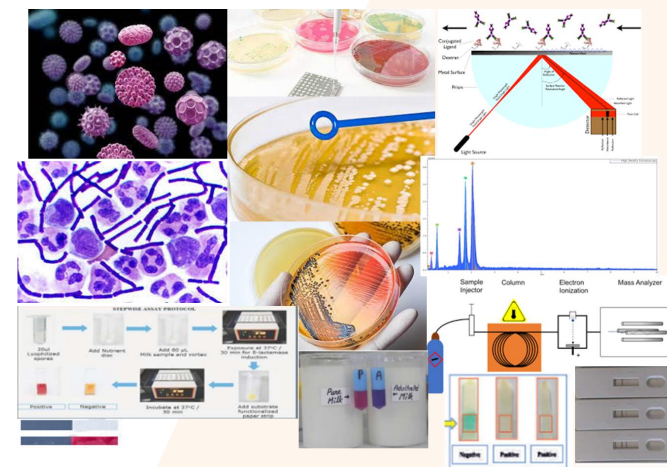
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**Hands on Training on
Conventional and Rapid
techniques for the quality
and safety assessment of
milk**

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**Dairy Microbiology Division,
ICAR-National Dairy Research
Institute, Karnal-132001.
Haryana**

About NDRI

ICAR-National Dairy Research Institute (NDRI) at Karnal, Haryana is one of the premier Institutes in the dairy sector, which has contributed immensely to the growth of the dairy industry. The R & D activities and HRD programs of the Institute mainly focus on the fundamental aspects of dairying. Quality milk production is at the fore of institute mandate. The institute has established several landmarks in the field of production and management of dairy animals for better productivity, innovating milk processing technologies and equipment, and providing the dairy farmers and entrepreneurs with updated information about existing market demands and practical solutions for making dairying a self-sustaining and profitable business.

About Dairy Microbiology

The Division is currently engaged in research, teaching, consultancy, training and technology transfer in specialized field of Dairy Microbiology. Broadly, the research work of the division covers the areas related to starter cultures and fermented milk products; direct vat starters (DVS); indigenous probiotics, their functional efficacy and gut microbiota, prebiotics and synbiotics; diversity of traditional fermented milk products by metagenomic, metabolomic and culturomic approaches, bioactive peptides, microbial metabolites and bio-preservatives; biosensors, quality assurance and food safety. The Division has played a key role in establishing National Collection of Dairy Cultures[†] (NCDC) with current repository of more than 800 cultures and National Referral Centre for Milk Quality and Safety. The Division has transferred technologies on two indigenous strains of probiotics, Misti Dahi, rapids kits for antibiotic residues, *Listeria monocytogenes* and *Enterococci* to potential stake holders in our country for their industrial application. Few more such products like vitamin B12 rich propioni-yoghurt, blueberry fortified probiotic dahi, real time test for detection of *E. coli* and antibiotic residues in milk have been developed and are under process of validation for their commercialization. Division also offers contractual and consultancy/training services such as supply of starter cultures, freeze-drying of cultures, microbiological analysis and setting standards for regulatory compliance of dairy products in our country.

Course Contents

- ❑ Bio-safety concept during handling of pathogens, Microbiological criteria, Sampling plan for milk and milk products
- ❑ Global food safety standards and Integrated Food Laws
- ❑ Aseptic concept and principles in enumeration of hygiene and safety bacteria in milk
- ❑ Testing of pathogenic bacteria (*E.coli*, *Salmonella/Shigella*) as per ISO standards specified in FSS standard 2016
- ❑ Testing of pathogenic bacteria, *Listeria monocytogenes* as per ISO standards specified in FSS standard 2016
- ❑ Testing of hygiene bacteria (SPC/Coliform, YMC) as per ISO standards specified in FSS standard 2016
- ❑ Testing of coagulase positive *Staphylococcus aureus* as per ISO standards specified in FSS standard 2016
- ❑ Testing of *Bacillus cereus* and Sulphite reducing clostridia as per ISO standards specified in FSS standard 2016
- ❑ Detection of antibiotics, pesticides and aflatoxin M1 in milk
- ❑ Rapid Microbiological testing of Raw milk (DMC/DRT)
- ❑ Enumeration of Enterobacteriaceae count in milk and milk products (Theory & Practical)
- ❑ Isolation and identification of *Cronobacter* spp. in infant milk foods
- ❑ Analysis of milk and milk products for Faecal Streptococci
- ❑ Rapid enzyme substrate assay for detection of hygiene and safety indicator organisms in dairy products

Eligibility

Applications are invited from the researchers belonging to Scheduled Caste (SC) community, including students and research staff (RAs and SRFs) of ICAR/ SAUs and CAUs and other Universities/ institutes. The basic qualification of the candidates must be B.Tech (Dairy Technology), Masters in Microbiology/ Dairy Microbiology or equivalent.

How to apply

Interested candidate should submit his/her application through email to the Course Director (4rvsy.dmndri@gmail.com). The application needs to be approved by the competent authority of his/her organization. There is no need to submit the hardcopy of the application.

Registration Fee: There is no registration fee.

Mode of selection

The candidate shall be selected based on the evaluation criteria set by the evaluation committee. The number of candidates is restricted to 15 to ensure the social distancing and low trainee-instructor ratio for better learning and experience.

Certificate

A certificate will be awarded to the participants on the successful completion of the course

Financial Assistance

The participants will be paid T.A. for to and fro journey by rail/ bus/ public transport by the shortest route as per entitlement restricted up to 2nd AC in train (on production of documentary evidence).

Accommodation

Accommodation will be provided free of cost at the Institute's accommodation facilities on sharing basis. (Please do not bring your family members along with you. It will not be possible to arrange for their accommodation at Karnal during the period).

