

भा.कृ.अनु.प.-राष्ट्रीय कृषि उपयोगी सूक्ष्मजीव ब्यूरो  
(भारतीय कृषि अनुसंधान परिषद्)

ICAR-NATIONAL BUREAU OF AGRICULTURALLY IMPORTANT MICROORGANISMS  
(Indian Council of Agricultural Research)

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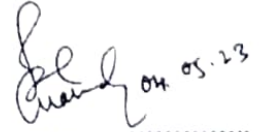
Date: 04.05.2023

To whom it may concern

This is to certify that Ms. **POOJA PATHAK**, Student ID: MSMB2021001, student of M.Sc. (Microbiology) in Department of Biotechnology, INVERTIS University, Bareilly carried out the project work entitled "**Isolation and identification Acidobacteria from soil**" under my guidance at ICAR-National Bureau of Agriculturally Important Microorganisms (NBAIM), Mau, Uttar Pradesh during 5<sup>th</sup> January to 4<sup>th</sup> May, 2023. This report is a record of bonafide research work and the contents of the reports are genuine. Therefore, this report is being forwarded for partial fulfillment of requirement for the degree of M.Sc. (Microbiology) in INVERTIS University, Bareilly.

  
Head

Department of Biotechnology  
Invertis University, Bareilly (U.P.)

  
04.05.23

Signature

**Dr. Hillol Chakdar**  
Senior Scientist (Ag. Microbiology)  
ICAR-NBAIM, Mau



Dean  
Faculty of Science  
Invertis University, Bareilly (U.P.)

Registered  
Invertis University  
Bareilly

DATE: MAY 14, 2023

**CERTIFICATE**

THIS IS TO CERTIFY THAT '**PURVA SAXENA**' FROM INVERTIS UNIVERSITY, BAREILLY HAS WORKED AS A DISSERTATION STUDENT UNDER MY SUPERVISION ON PROJECT ENTITLED " IN-SILICO AND IN-VIVO STUDIES OF DIFFERENTIALLY EXPRESSED PROTEINS IN RHEUMATOID ARTHRITIS ".

SHE HAS ALSO ACTIVELY PARTICIPATED IN DIFFERENT STUDIES CARRIED OUT IN BIOTECHNOLOGY LABORATORY. SHE HAS GOOD APTITUDE FOR RESEARCH.

WE WISH HER SUCCESS IN FUTURE.



Guide Signature



Head  
Department of Biotechnology  
Invertis University, Bareilly (U.P.)



Dean  
Faculty of Science  
Invertis University, Bareilly (U.P.)

Registrar  
Invertis University  
Bareilly

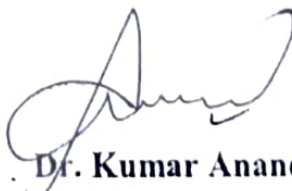
## CERTIFICATE

**DATE: MAY , 2023**


THIS IS TO CERTIFY THAT "**Ms. Sonali Choudhary**" FROM INVERTIS UNIVERSITY, BAREILLY HAS WORKED AS A DISSERTATION STUDENT UNDER MY SUPERVISION ON PROJECT ENTITLED "**ALGAL BIOMASS PRODUCTION UTILIZING WASTE WATER FOR BIOFUEL GENERATION**".

SHE HAS ALSO ACTIVELY PARTICIPATED IN DIFFERENT STUDIES CARRIED OUT IN AVIAN BIOTECHNOLOGY LABORATORY (CARI) FOR 120 DAYS (FROM 01 JANUARY TO 30 APRIL 2023). SHE HAS A GOOD APTITUDE FOR RESEARCH. WE WISH HER SUCCESS IN FUTURE.

  
Head  
Department of Biotechnology  
Invertis University, Bareilly (U.P.)

  
**Dr. Kumar Anand**  
Senior Scientist  
Helical biosciences

  
Registrar  
Invertis University  
Bareilly

  
Dean  
Faculty of Science  
Invertis University, Bareilly (U.P.)

DATE: MAY 12, 2023

**CERTIFICATE**

THIS IS TO CERTIFY THAT '**PRIYANKA SACHAN**' FROM INVERTIS UNIVERSITY, BAREILLY HAS WORKED AS A DISSERTATION STUDENT UNDER MY SUPERVISION ON PROJECT ENTITLED "UTI INFECTION".

SHE HAS ALSO ACTIVELY PARTICIPATED IN DIFFERENT STUDIES CARRIED OUT IN MICROBIOLOGY LABORATORY FROM 1<sup>st</sup> FEBRUARY 2023 TO 10<sup>th</sup> MAY 2023. SHE HAS GOOD APTITUDE FOR RESEARCH.

WE WISH HER SUCCESS IN FUTURE.



Head

Department of Biotechnology  
Invertis University, Bareilly (U.P.)



12/5/23  
Guide Signature



Regd. at  
Invertis University  
Bareilly



Dean  
Faculty of Science  
Invertis University, Bareilly (U.P.)

## CERTIFICATE

DATE: 6<sup>TH</sup> May 2023

THIS IS TO CERTIFY THAT Ms. Varsha Gupta FROM INVERTIS UNIVERSITY, BAREILLY HAS WORKED AS A DISSERTATION STUDENT UNDER MY SUPERVISION ON PROJECT ENTITLED "Examinations to evaluate the Proper Fuctioning of Kidney".

SHE HAS ALSO ACTIVELY PARTICIPATED IN DIFFERENT STUDIES CARRIED OUT IN PATHOLOGY LABORATORY FROM 5<sup>TH</sup> JANUARY 2023 TO 4<sup>TH</sup> May 2023. SHE HAS GOOD APTITUDE FOR RESEARCH.


WE WISH HER SUCCESS IN FUTURE.

Date - 6<sup>TH</sup> May 2023

Place: Bareilly

  
Head

Department of Biotechnology  
Invertis University, Bareilly (U.P.)

Signature: 

**Dr. SANGEETA GUPTA**

  
Dean

Faculty of Science  
Invertis University, Bareilly (U.P.)

  
Invertis University  
Bareilly

## CERTIFICATE

THIS IS TO CERTIFY THAT 'INDRA MOURYA' INERTIS UNIVERSITY, BAREILLY HAS WORKED AS A DISSERTATION STUDENT UNDER MY SUPERVISION ON PROJECT ENTITLED "TITLE OF PROJECT."

SHE HAS ALSO NACTIVELY PARTICIPATED IN DIFFERENT STUDIES CARRIED OUT IN BIOTECNOLOGY LABORATORY FROM XXXX TO XXXX. SHE HAS GOOD APTITUDE FOR RESEARCH.

WE WISH HER SUCCESS IN FUTURE.



Head  
Department of Biotechnology  
Invertis University, Bareilly (U.P.)



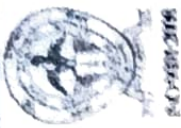
Guide Signature



Dean  
Faculty of Science  
Invertis University, Bareilly (U.P.)



Invertis University  
Bareilly



**cari**

# ICAR-CENTRAL AVIAN RESEARCH INSTITUTE

IZATNAGAR -243122



Dean  
Faculty of Science  
Invertis University, Bareilly (U.P.)

This is to certify that Miss Adeeba Nousheen, M.Sc. Microbiology from Invertis University, Bareilly- 243123, (U.P.) has successfully completed her dissertation work on the project entitled '*Estimation of viral load in chicken tissue infected with velogenic Newcastle disease virus (NDV)*'. She has also actively participated in ongoing activities of Avian Physiology and Reproduction division and Molecular Physiology Laboratory (ICAR-CARI) from January 01 to April 30, 2023.

Dr. Gautham Kolluri

Mentor

Dr. GAUTHAM KOLLURI, M.V.Sc.,  
Scientist  
Division of Physiology & Reproduction  
Central Avian Research Institute  
Bareilly - 243122, U.P.



Dr. Avishek Biswas

Head, PGE&T

Head  
Department of Biotechnology  
Invertis University, Bareilly (U.P.)

Dr. Ashok Kumar Tiwari

Director

Dr. Ashok Kumar Tiwari  
Director  
ICAR-Central Avian Research Institute  
Bareilly - 243122 (U.P.)

CARI/PGE&TSDIW/2022-23/03

# **Somics Lifesciences** **Pvt. Ltd.**

*We provide multiple platforms for Life science Research...*

*Dr. Kumar Anand*

Email:- Somicalifesciences49@gmail.com

*Senior Scientist*

*Somics Life Sciences*

Date-13-05-2023

## **CERTIFICATE**

This is to certify that Mr. Shubham Tiwari student of M. Sc. Microbiology, Department of Biotechnology, Invertis University, Bareilly (U.P.) worked for dissertation thesis entitled "Estimation of Human chorionic gonadotropin using novel gold immunosorbent assay in Human" for the partial fulfillment for degree of Master of Science in Microbiology at Somics Life Sciences, Rudrapur UK. He carried out his work from 20 Jan 2023 to 10 May 2023 under my guidance.



(Dr. Kumar Anand)



Head

Department of Biotechnology  
Invertis University, Bareilly (U.P.)



Dean

Faculty of Science  
Invertis University, Bareilly (U.P.)







# A PLUS DIAGNOSTICS AND HEALTH CARE

112, Civil Lines, Between Prabha Cinema & Gandhi Udhyan, Bareilly  
Phone : 0581-2510777 / 778, Mobile : 9720969779, 9837032124 e-mail : srlaplus@gmail.com

## DECLARATION

Date: 12.05.2023

I declare that the project report entitled "**UTI Infections**" is my own work conducted under the supervision of **Mr. ARJUN KAKKAR**, position,

**SRL Limited franchise A- Plus Diagnostics & Healthcare BAREILLY**. I have put-in more than 100 days of attendance with the supervisor at the university. I, further declare that to the best of my knowledge, this thesis does not contain any part of any work, which has been submitted for the award of any degree either in this University or in any other University/Deemed University without proper citation.

Signature of the Candidate  
(PRIYANKA SACHAN)

Signature of Director  
Mr. Arjun kakkar

Head  
Department of Biotechnology  
Department of Biotechnology  
Invertis University, Bareilly (U.P.)

Dean  
Faculty of Science  
Invertis University, Bareilly (U.P.)

Signature of the HOD  
Dr. Pankaj rai

Lab. Franchisee  
**SRL**  
Diagnostics

Date: 12.05.2023


## To whom it may concern

This is to certify that present dissertation entitled "**Water Treatment & Packaged water manufacturing , Food safety & Quality assurance on Microbiology & Chemical analysis**" submitted in fulfillment of the requirements for the award of the degree of Master of Science in 'Microbiology' of Department of Biotechnology, Invertis University, Bareilly is a bonafide work carried out by Ritika Srivastava (MSMB2021009) at Brindavan Beverages Pvt. Ltd, Paraskhera, Bareilly under the supervision of guide during the academic session 2021-2023.

She has actively participated in different field to study the relevant knowledge gain with her strenuous ability and good aptitude with excellent behavior.

  
Head  
Department of Biotechnology  
Invertis University, Bareilly (U.P.)

  
Guide Signature  
Kausik Kr. Mandal

  
Dean  
Faculty of Science  
Invertis University, Bareilly (U.P.)

  
Invertis University  
Bareilly