Declaration

I, hereby declare that with the exception of the guidance and suggestions received from Supervisors, Dr. S.C. Agarwal, Professor and Head, Department of Applied Microbiology and Biotechnology, Dr. Hari Singh Gour University, Sagar and Dr. Surendra Singh, Lecturer, Department of Biological Sciences, Rani Durgawati University, Jabalpur, the thesis entitled "Genetic analysis of nitrogen controls controlling diazotrophy and alkali cation metabolism in the cyanobacterium *Nostoc muscorum*" embodies my own unaided research work which has been carried out in the laboratory of Applied Microbiology and Biotechnology, Dr. Hari Singh Gour University, Sagar (M.P.), India.

Signature of the Supervisor

Signature of Head

Signature of the Candidate
Sangeeta Negi

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