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Programme

Ph.D.

Subject

Chemistry

I, **Deepika Singh**, certify that the work embodied in this Ph.D. thesis, entitled “**Synthesis and Reactions of Phenanthridine-Annulated Heterocyclic Compounds**” is my own bonafide work carried out by me under the supervision of **Prof. R. K. Bansal**, Professor, The IIS University, Jaipur and co-supervision of **Dr. Pragya Sinha**, Associate Professor, The IIS University, Jaipur, for a period of **5 years and 6 months** from **July 2012** to **January, 2018** at Department of Chemistry, The IIS University, Jaipur. The matter embodied in this Ph.D thesis has not been submitted for the award of any other degree/diploma.

I declare that I have faithfully acknowledged, given credit to and referred to the authors/research workers wherever their works have been cited in the text and the body of the thesis. I further certify that I have not willfully lifted up some other's work, para, text, data, results, figures etc. reported in the journals, books, magazines, reports, dissertations, theses, etc., or available at web-sites and included them in this Ph.D thesis and cited as my own work.

Date: 10/01/2018

Place: Jaipur

Deepika Singh

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This is to certify that the above statement made by the Research scholar is correct to the best of our knowledge. Certified that a check for plagiarism has been made on the software available in the University and the contents of thesis have been found free from plagiarism within permissible limits.

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Professor

The IIS University, Jaipur

Co-supervisor

Dr. Pragya Sinha

Associate Professor

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Head, Department of Chemistry



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[See Clause XIII.1 and XIII.2 (e) (iii)]

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This is to certify that **Ms. Deepika Singh** is a bonafide research scholar of this **Department of Chemistry**, registered for the Ph.D. degree vide University letter No. **IISU/Ph.D./CHY/R.S. 102/2012/7336** dated 12-07-2012 under the supervision of **Prof. R. K. Bansal** and co-supervision of **Dr. Pragya Sinha**, of Department of Chemistry, The IIS University, Jaipur. She has satisfactorily completed all the requirements for the submission of thesis for the award of Ph.D. degree as per provisions of The IIS University Ph.D. Bye-laws and the UGC (Minimum standards and procedure for award of Ph.D. Degree), Regulations, 2009. She has successfully completed the course work and well-defended the Research Proposal Seminar and the Pre-submission seminar presented by her before the DRC/RPMC or the committee constituted for the purpose with at least one external expert present in the meeting of the committee. She has also published **two** research paper(s) in refereed journals of repute, approved by the DRC.

Dr. Varsha Goyal
Head, Department of Chemistry
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Date: 10/01/2018

Place: Jaipur



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This is to certify that the thesis entitled "**Synthesis and Reactions of Phenanthridine-Annulated Heterocyclic Compounds**", submitted by **Ms. Deepika Singh** under our supervision for the award of Ph.D. degree in the faculty of Science, The IIS University, Jaipur is an original piece of research work.

Literary presentation is satisfactory and thesis is in a form suitable for publication. The research work also evinces the capacity of the Research Scholar for critical examination and independent judgment.

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Title of the Thesis : **SYNTHESIS AND REACTIONS OF
PHENANTHRIDINE-ANNELATED
HETEROCYCLIC COMPOUNDS**

Name of the Research Scholar : **Ms. Deepika Singh**

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**Date: 10/01/2018
Place: Jaipur**

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