

Synthesis and Characterization Of Some Discotic Amphiphiles

Thesis Submitted to the Jawaharlal Nehru University

for the degree of

Doctor of Philosophy

By

Swamynathan. K

UNDER THE SUPERVISION OF

Prof. SANDEEP KUMAR



SOFT CONDENSED MATTER

RAMAN RESEARCH INSTITUTE

Bangalore - 560080 (INDIA)

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“It’s only after you’ve stepped outside your comfort zone that you begin to change, grow, and transform.”

- *Roy.T.Bennett*

*Dedicated to
My Parents & Brother*

DECLARATION

I hereby declare that the thesis entitled “*Synthesis and characterization of some discotic amphiphiles*” is an authentic record of research work carried out by me at the Soft condensed matter, Raman Research Institute, Bangalore, India under the supervision of **Prof. Sandeep Kumar** and that it has not been submitted elsewhere for the award of any degree or diploma. I also declare that the contents of this thesis have been checked through Turnitin plagiarism software

In keeping with the general practice in reporting scientific observations, due acknowledgment has been made whenever the work described is based on the findings of other investigators. Any omission that might have occurred due to oversight or error in judgment is regretted.

Swamynathan. K



CERTIFICATE

This is to certify that the thesis entitled “*Synthesis and characterization of some discotic amphiphiles*” submitted by **Mr. Swamynathan. K**, for the award of the degree of DOCTOR OF PHILOSOPHY of Jawaharlal Nehru University, New Delhi, is his original experimental investigation and conclusions. The subject matter of this thesis has not been previously published or submitted to any other university for the award of any other degree or diploma

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CERTIFICATE

I hereby certify that the work described in this thesis titled “*Synthesis and characterization of some discotic amphiphiles*” has been carried out by **Swamynathan. K** at the soft condensed matter department, Raman Research Institute, Bangalore, India under my supervision and it has not been submitted elsewhere for the award of any degree or diploma.

Prof. Sandeep Kumar

(Thesis Supervisor)

