

CERTIFICATE

**BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE
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CERTIFICATE

This is to certify that the thesis entitled “**Catalytic Approach towards the Synthesis of Indole based Heterocycles**” and submitted by **Mr. Anoop Singh** (ID No: **2012PHXF426P**) for the award of the Ph.D. degree of the Institute embodies the original work done by him under my supervision.

Signature in full of the Supervisor:

Name: **Dr. Indresh Kumar**

Designation: **Associate Professor**

Date:



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