BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI

CERTIFICATE

This is to certify that the thesis titled "Elucidating the Antibacterial Mechanism of Silver Species against Gram-Negative Bacteria" submitted by Vikram Pareek, ID No. 2015PHXF0001P for award of Ph.D. of the Institute embodies original work done by him/her under my supervision.

Signature of the Supervisor:

Name in capital letters: JITENDRA PANWAR

Designation: PROFESSOR

Date: