BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI

CERTIFICATE

This is to certify that the thesis entitled "Energy-Efficient Circuit Design for Energy-Autonomous IoT Systems Using Emerging Non-Volatile Memory" submitted by Ms. Kanika Monga, ID No. 2017PHXF0027P for award of Ph.D. of the Institute embodies original work done by her under my supervision.

Nitis

(Signature of the Supervisor) Dr. Nitin Chaturvedi Assistant Professor, Dept. of EEE Birla Institute of Technology & Science, Pilani Pilani - 333031 (Rajasthan) INDIA