

## CERTIFICATE

This is to certify that the thesis entitled "**The Study of Postbuckling Response, Failure and Strength of Functionally Graded Composite Plates with Cutouts**" and submitted by Vummadisetti Sudhir, ID No. 2014PHXF0409P for award of Ph.D. degree of the Institute embodies original work done by him under my supervision.

Signature (Supervisor): \_\_\_\_\_

## **DR. SHAMSHER BAHADUR SINGH**

Professor, Department of Civil Engineering, Birla Institute of Technology and Science, Pilani-333031(Rajasthan)

Date: