

DECLARATION BY SCHOLAR

I do hereby declare that this submission is my own work and that, to the best of my knowledge and belief, it contains no material previously published or written by another person nor material which has been accepted for the award of any other degree or diploma of the university or other institute of higher learning, except where due acknowledgment has been made in the text.

Sudhir Kumar Chaturvedi

500024034

Ph.D Research Scholar

Department of Aerospace Engineering

University of Petroleum and Energy Studies

Dehradun-248007