

Development of a Biomass Gasification integrated Solar-wind Driven Hybrid System using Organic Rankine Cycle for Combined Electricity Generation and Syngas Production

Thesis submitted in partial fulfillment for the Award of Degree

Doctor of Philosophy

submitted by

Mohit Prakash

Supervised By

Dr. Arnab Sarkar

Co-Supervised By

Dr. Jyoti Prasad Chakraborty



Department of Mechanical Engineering

Indian Institute of Technology (BHU)

Varanasi – 221005

16131010

2020