CERTIFICATE

It is certified that the work contained in the thesis titled "DEVELOPMENT OF

RUBBER BASED SHEET HYDRO-FORMING PROCESS: EXPERIMENTAL IN-

VESTIGATIONS AND NUMERICAL SIMULATION" by "ABHISHEK KUMAR"

has been carried out under our supervision and that this work has not been submit-

ted elsewhere for a degree.

It is further certified that the student has fulfilled all the requirements of Com-

prehensive Examination, Candidacy and SOTA for the award of Ph.D. Degree.

Supervisor

External Supervisor

Prof. Santosh Kumar Dept. of Mechanical Engineering IIT(BHU), Varanasi-221005 Dr. Dasharath Ram Scientist 'H' Defence Research & Development Laboratory Hyderabad- 500058