

CERTIFICATE

This is to certify that the subject matter of Mr. Santosh Kumar Karna's thesis is a record of work done by Karna himself under my guidance and supervision and that the contents of his thesis did not form a basis of award of any previous degree to him or to the best of my knowledge, anybody else and that he worked on the subject for requisite number of terms under my guidance and that in habit and character Mr. Karna is a fit and proper person for the award of Ph.D. degree.

K. K. Choudhary
19.03.23.

(Dr. K.K. Choudhary)

Supervisor