

## ACKNOWLEDGEMENTS

---

I take this opportunity to record my respectful thanks to my honorable guide Prof. L. P. Singh, Former Head of Department of Mathematical Sciences, Indian Institute of technology, (Banaras Hindu University) Varanasi, under whose supervision the work has been done. I am deeply grateful to him for his negotiation, motivation towards research work, inspiring guidance, untiring help and valuable suggestions given by him at every moment where we feel some difficulty, during the progress of research work.

I would like to express my gratitude to Prof. T. Som, Head, Department of Mathematical Sciences for encouraging me and providing the facility during my research work. I would like to express my deep sence of gratitude to Professor S. K. Upadhyay, Convener DPGC, Department of Mathematical Sciences for encouraging me during my research work. I also acknowledge my sincere thanks to DPGC members and all faculty members of the Department for their encouragement and moral support. I am also thankful to my RPEC members Prof. S. K. Pandey and Prof. P. K. Singh, Department of civil engineering Indian Institute of technology, (Banaras Hindu University) Varanasi, for their valuable suggestions throughout the period of research work. My special thanks are to Dr. S. D. Ram, Dr. Ragvendra Singh, Mr. Raj Kumar Gupta, Pooja Gupta, Mr. Triloki Nath, Mr Shobhit Kumar Srivastva, Mr. Rahul Kumar Chaturvedi and my colleagues Mr. Naveen Kumar Jha, Mr. Amir Lal, Mr. Shiva Sharma, Mr. Vijay Kumar Patel, Mr. Kamlesh Kumar Pandey, Mr. Abhishek Kumar Singh, Mr. Gopal Kumar Gupta who encouraged me during my research work.

I am also grateful to all nonteaching staff members of the Department for their support during my research work.

I gratefully acknowledge financial support by CSIR, India for awarding me fellowship during my research work.

I am sincerely grateful to my Father, Mother and Brother for their deepest love, moral support, encouragement and appreciation all along my research work.

Above all, I bow down before the **Almighty** who made my dream a reality.

Date: .....

Place: Varanasi

**(Jitendra Pal Chaudhary)**