

ACKNOWLEDGEMENTS

First and Foremost, I would like to express my deep and sincere gratefulness to my supervisor, Prof. Pradip Kumar Jain for his valuable personal and professional support, consistence motivations and excellent guidance. I would like to thank to my Co-Supervisor, Dr. M.Thottappan, for his valuable support and guidance. The completion of this research work is truly an outcome of his immense knowledge, valuable ideas and suggestions that has provided a good basis for this work. His constant guidance, cooperation, motivation and support helped me in all the time of research and writing of this thesis.

Besides my supervisors, I would like to thank the members of the research performance evaluation committee, Prof. S. P. Singh and Prof. R. Mahanty, for their encouragement, detailed and constructive comments.

My sincere thanks go to all staff members, especially to Mr. Rajesh Kr. Rai, Mr. Achal Srivastava, Mr. Ajit, Mr. Punawasi, Mr. Jairam and Ranjan Singha for their kind co-operation.

My sincere appreciations and thanks goes to Mr. Rajan Agrahari and Co., Mr. Akhilendra and Co, Mr. Vikram Kumar, Mr. Anshusharan Singh, Mr. Vineet Singh, Mr. Veerababu, Mr. Arjun kumar and Co., Dr. Naresh Kumar Pilli, Dr, Ramesh Kalyan, Dr. Rajasekar Yerrasani, Mr. Raghuram, Mr. Vijaybabu, Mr. Vinod Kumar, Mr. Pankaj Kumar Jha, Mr. Gaurav Singh and Mrs. Garima Dubey, who stood behind me during my ups and downs and keeps motivate me to reach the target.

A special thanks to Mr. Jaya Krishna and Co, Mr. Kumar Raja, Mr. Mohan Rao, Mr. Govindha Rao K, Dr. Hemanth Kumar and Co., Mr. UmaMaheswarao Mr. KV Shiva Kumar, Mr. Sridhar Kumar Ch, Mr. Sundar B, Mr. Eswara Prasad, Mr. Dharma Shasta

During this work, I have collaborated with many of my colleagues for whom I have great regards and I wish my warmest thanks to, Dr. Gourav Modanwal, Dr. Subiman Chatterjee, Dr. Sudhir Bhaskar, Mr. Prabhakar Tripathi, Mr. G. Venkatesh, Mr. Soumjit, Mr. Ravinder Agrahari, Mr. M. A. Ansari, Mr. Rajneesh, Mr. Akash, Mr. V. V. Reddy, and Mr. S. G. Yadav for providing technical help in my research work and fun filled environment.

I am very much thankful to Dr. M. S. Chauhan, Dr. Gargi Dwivedi, Dr. Amit Arora, Dr. M. V. Swati and Co., Dr. Nallaswamy and Dr. Manpuran Mahto for their valuable motivation and assistance from personal to the technical level.

Finally, I hearty express sincere thanks to my family members SrinivasaRao V, Venkateswari K and Co. Mr. Lokeswara Rao U. I wish to express gratitude to them, for their unconditional love, extreme patience and constant support over the years. They provide me the strength and confidence to attain this task.

Last but not the least; I thank almighty God for providing me strength and courage in completing the work.

Date:

(Sivavenkateswara Rao V)