ACKNOWLEDGEMENTS

Through this page I offer my salutation, to creator of this pious seat of learning Mahamana Pt. Madan Mohan Malviya Ji.

It is indeed my proud privilege to express my deep sense of gratitude and indebtedness to my supervisor, Prof. R. M. Banik, Professor, School of Biochemical Engineering, Indian institute of Technology (B.H.U.), Varanasi for his immense help, co-operation and valuable guidance that he has extended to me for the successful completion of this investigation. I am grateful to him for his constant encouragement, sustained interest and parental care throughout the research period.

I pay my sincere thanks to Prof. S. K. Srivastava, Coordinator, School of Biochemical Engineering, Indian Institute of Technology (B.H.U.) for providing necessary facilities.

It is a profound privilege to be a student of School of Biochemical Engineering. I would like to thank other faculty members of the school Prof. Mira (Debnath) Das, Prof. Subir Kundu, Dr. Pradeep Srivastava and Dr. Abha Mishra who helped me a lot in overcoming the bottlenecks I encountered during my studies, with their valuable advices.

From the depth of my heart I would like to express my gratitude and special thank to Prof. S. H. Hasan, Department of Chemistry, I.I.T (B.H.U.) for helping me at each and every step of my research work. I am also grateful to his parental care and moral support.

I am thankful to Dr. Gireesh Kumar Singh, Assistant Professor, B. Pharm. (Ay), M. Pharm (Ay), R. G. S. C Barkachha Mirjapur BHU, for in-vivo evaluation of my developed dressings.

I am indebted to Prof. Praley Maiti, School of Material Science and Technology,

I.I.T (B.H.U.) for allowing me to carry out the studies related to the evaluation of

mechanical properties of polymeric scaffolds.

I also gratefully acknowledge to the INDIAN COUNCIL OF MEDICAL RESEARCH (ICMR) New Delhi for the financial assistance in the form of fellowship grant File No. 3/1/3/JRF 2010/ HRD-95(34370)).

I can never forget the continuous and loving support of my senior Dr. Yogendra Singh who unconditionally helped me like a elder brother.

I would like to express my heartfelt gratitude to my dear laboratory mates and friends of Department of Chemistry and Pharmaceutics who directly or indirectly supported my research work, some of them are Vijay Kumar, Devendra Kumar Singh, Shipra Deep, Sweta Mohan, Shiv Sundar Yadava, Nagendra Kumar, Sanjey Singh, Anshul Sakya, Gopal Rai, Vikash Kumar, Manish, Vinay, Daraksha Bano, S. R. Srinivas Murti, Ashish, Shailendra Singh, Sukhendra, Rupika, Ipsita, Sumedha, Rajeev and many more.

I am extremely indebted to my beloved parents for everything. I am also greatly grateful to my beloved wife Urmi Verma for her unconditional love, everlasting encouragement and moral support. I would also like to express my love to my younger brother Desh Deepak Verma, younger sisters Deepmala Verma and Arti Verma for their respect and faith in me.

Finally, I bow my head humbly before the almighty God along with my parents (Mother-Smt. Munni Devi & Father- Shri Jhamman Lal Verma) without whose consent this work would not have been possible and I wish to express my wish to all those who have contributed in one way or another for the completion of thesis.

(Devendra Kumar Verma)