Acknowledgements

Every mission needs a spirit of dedication and hard work, but more than anything else it needs proper guidance, working atmosphere and mental support. In all humility and profound privilege, I express my deep sense of gratitude and heartiest thanks to Dr. Komal Saini, Department of Forensic Science, Punjabi University, Patiala, my mentor for guiding me through the execution of the present work with remarkable patience, scholarly insight and benevolent help. I am deeply indebted to her for her genial guidance, perceptive and constructive criticism, invaluable suggestions, meticulous supervision, ardent interest, ever encouraging words and inspiring hard work that helped me to accomplish this treatise.

I express my sincere thanks to Dr. R.K. Garg, Prof & Head, Department of Forensic Science, Punjabi University, Patiala for providing me every opportunity to accomplish my research work.

I feel extremely fortunate in having this opportunity to express my gratitude to Dr. O.P. Jasuja, Dr. R.M. Sharma, Dr. M.K. Thakkar and Dr. Rajinder Singh Chandel, Department of Forensic Science, Punjabi University, Patiala for their ever available guidance and help at all stages of my study. Their constructive and insightful criticism of my work helped to shape my perceptions.

I owe my sincere thanks to Dr. Baldev Singh, Prof & Head, Department of Chemistry, Punjabi University, Patiala for their invaluable help during the interpretation of the results of FTIR.

My heartfelt gratitude and indebtedness goes to Dr. Gurinder Kaur Walia, Department of Zoology for their precious help during accomplishing my Ph.D. work.

It’s really pleasant for me to express my gratitude to Sh. Gulshan Rai, Dy. Director and Sh. Harsh Vardhan, Asstt. Director, FSL(H), Madhuban, Haryana, Karnal, for providing me the valuable suggestions at every step of my life.

I express my word of thanks to Dr. J.R. Gaur, Director and Dr. Meenakshi Mahajan, Asstt. Director, SFSL (HP), Junga, Shimla for their co-operation during the completion of my Ph.D work.
A deepest acknowledgement of my emotions is hardly adequate to express my deep feelings and heartfelt gratitude towards my parents without whose blessings, encouragement, unfailing co-operation, loving inspiration and support this treatise would have remained an imagination only. I have also special words of thanks for my sisters Kawalpreet, Ramanpreet, Gurpreet and brothers-in-laws Gurtej Singh, Satyendra Singh, Beant Singh for their inexpressible heart soothing support.

I shall be failing in my duty if I do not record my appreciations for my wife Mrs. Rajnish Saroa for providing me necessary courage and mental support at every step of my life. A sense of apology is due to my sweet daughter Guntass who has probably missed many precious moments of fatherly love and care.

I would like to thank my elder brothers Manjit Singh, Iqbal Singh and my superlative friends Gurpreet Singh, Rajvinder Singh, Jasvir Singh, Dinesh who consistently backed me up for every challenge. Also, a enormous lump of thanks to my friends Amit Katewa, Supreet pal Singh whom remained a sincere part of the discussion and collection of the samples regarding my research work.

I am also thankful to Sh. Rikki chand and Sh. Mahinder Singh, RSIC, Panjab University, Chandigarh and all the subjects for their active participation in my research analysis.

I would also take privilege to thank all the non teaching staff of the Department of Forensic Science, Punjabi University, Patiala, who helped me whole-heartedly right from laboratory to office.

In the end and above all, I thank Almighty God for blessing me with good health all the way to the end of my research work.

Date ...........

(Jagjeet Singh)