ACKNOWLEDGEMENTS

At the very outset I take this opportunity to express my deep gratitude to my supervisor, Dr. Dinakar Salunke for introducing me to the three dimensional world of proteins and molecules in general. His guidance, sustained support and encouragement made work as well as my stay more pleasurable.

I thank the Director of IIT, Dr. Sandip Basu for his support and guidance.

I would specially like to thank Dr. Om Singh, Dr. R. P. Roy & Dr. Subeer Mazumdar who helped me at various stages of the study and gave complete access to their lab facilities. I am thankful for the help given by the staff of IEL and Kumaran, Sivaram from CBLIIT while working in their labs. I thank my doctoral committee members Prof. T. P. Singh, Dr. Om Singh, Dr. Janendra Batra and Dr. Subeer Mazumdar for their advice and encouragement.

Friendly and conducive atmosphere at work in the Structural Biology Unit was a wonderful experience with Kanwaljeet, Vidya, Sushma, Ranjna, Deepti, Deepak, Usha, Manisha, Gargi, Kavitha, Pampi, Gomathi, Vijayalakshmi, Sarna, 'Uncleji' and Nihal always lending a helping hand. It was fun and laughter with seniors Sumit, Vibha and Jawahar who were ready for any questions about academics too. Discussion times in 'Khandala' with Sarna, Usha & Gargi were a treat by themselves.
I thank Dr. Debasisa Mohanty for all the help rendered and not tiring of my pestering ways.

I would like to thank all the RSHites(B-block too!) for the genial environment at the hostel which helped one relax after a hard day’s work. 'TV room’ times with Shouzho, Manisha, Neela and Sangeeta were great fun. Home away from home. I thank Koundal, Shekhar, Hemchand, Hoshang, Noman, Aruna for the pleasant times in their company. Mamta and Anu. I suffice by saying that the card’s on its way! :) But for the pains taken by Manisha, Mamta, Anu, Deepak, Neela, Hoshang and Srividya, this thesis would not have taken shape. I humbly thank for all the help.

Friends for a lifetime Abhijit, Abba and Suresh, make one feel fortunate for the constant help and words of advice. Lata, Krupa, Shanti, Leela and Nina. thank you for being with me.

The times spent with my FPJ, Mukund and constant support from aunty and uncle made my stay in Delhi a memorable experience.

Words fail me to express gratitude for the unstinting belief, encouragement and support given by my parents, uncle and sisters that helped me reach this milestone. Being with me like a shadow that helped me push forward I humbly thank Jawahar, the wind beneath my wings.

The financial support provided by CSIR and NII for the period of my stay is also acknowledged. I thank one and all for the help rendered.