Acknowledgments

At last, a day comes when one starts writing the acknowledgments of his thesis. A sign of relief appears in his face, for he knows that his days of "Tapasya" are soon going to be over. I have used he in a more general sense indicating both he and she. This is a pleasurable moment during writing ones Ph.D thesis because the journey, which starts through a dark tunnel with many unknown hurdles on the way, the day one joins for his Ph.D course is now seeing the light at the other end of the tunnel. In these pitfalls almost all the researchers are bound to fall and get bruises. This often creates frustration and depression, a very natural phenomenon to occur. In such situations of deep trouble one needs a constant source of intellectual energy to nourish and replenish the stock of knowledge to face all the odds and become a source for some novel ideas. So, there is someone to care and share your sufferings in this field and empower your source of knowledge to help you overcome these obstacles. He gives all the necessary advice to cope with all such hard situations. By the time one reach this stage one develops considerable intellectual courage and develops sufficient confidence to face the challenges of research without his "Marg Darshak".

Today, I am also writing the acknowledgment of my thesis. This stage, in which I am today, is undoubtedly because of my supervisor Dr. C. B. Dwivedi's colleague-like guidance. His colleague like nature (even though the time scale of his reaching instability is small enough) gave me a chance to have a very close interaction with him and always remained as a strong pillar of support against all hurricanes. This gave me the chance to clear lots of my small doubts, which otherwise are left behind and piles up in a hierarchical "Guru-Sisha" atmosphere. The most appreciable quality in him is his essence of correlating the physical phenomena to some more easily understandable daily chores of life. He always emphasized to visualize science not as a bookish knowledge but more in its essence and ethics and to realize it in our societal life. Science being investigation of truth should not only be confined in some blacks and whites or in the machines of the laboratory but to practice science in our daily life. So, our discussions often cross the barrier of the plasmas and other sciences and encompass other facets of the society also as we are part and parcel of it and our sole aim is to search for the truth, which the nature beholds and work for the welfare of the society. Whatever, words I write to acknowledge the intellectual achievement I had from him will always fall short? I would like to offer my sincere and humble respect toward him from the deep corner of my heart.

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Life would have been very monotonous, if I had not friends like Arunda, Ramprakash and Bornali since my joining as a Junior Research Scholar in a DST, Govt.
of Bharat sponsored project "Development of Plasma Physics Division at IASST" in Institute of Advanced Study in Science and Technology (IASST), Khanapara, Guwahati, Assam and afterwards as a JRF at Centre of Plasma Physics. We not only use to enjoy topics from science but also had great times of fun and frolic, a feeling of collectivism, which I will always miss. Here, I would also like to acknowledge DST, Govt. of Bharat for its financial help and also the clerical and the technical staff of the Plasma Division of IASST for their cooperative nature in many matters.

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Probably, writing acknowledgment is equally though as the main thesis. Since, there may be still some inadvertent mistakes in the language left out in the main text and similarly few more names may have left out from the above list. After all some one rightly mentioned "to err is man". I will always cherish the memoirs of this sweet voyage in my days to come.

Utpal Deka