ACKNOWLEDGEMENTS

Culmination of Doctoral Research is not a Fortnight procedure. It requires Consistency, Hard work, persistence, continuous change and support of different individuals and assets. As a theme of first importance I Offer my sincerest appreciation to my guide Honorable Dr. S. Chakradhara Goud. Who has upheld me thoroughly considered my Dissertation, with their understanding and learning while permitting me the space to work in my own specific manner. I property the level of my Doctoral degree to their support and exertion and without then this proposal, as well, would not have been finished or inside. One basically couldn't wish for a superior or friendlier manager.

I am thank full to my chief, and Director K. Ranganadha Babu, for giving me every one of the offices including labs, library and web and giving me legitimate counsel at each niche and corner. His insight in warm Engineering in unmatched and it was his direction which helped me in various circumstances all through.

I am grateful to K. Shivarama Krishanarao HOD – Mechanical engineering, Turbo machinery Institute of Technology and Sciences, my UG and PG teacher for his opportune exhortation and tips to finish my PhD.

I am appreciative to Respected and Honorable Chancellor of JJTU Shri.Vinod Tiberewala for his inspiration, excitement, and general Support.

I would get a kick out of the chance to thank everyone who was imperative in the effective acknowledgment of the examination, and in addition communicating my conciliatory sentiment that I couldn’t say by and by one by one.

At last, I am grateful I to my family, to support me all through my investigations particularly my dad without whom this Ph.D wouldn't have been conceivable.

Last yet one the least; I might want to bow my make a beeline for Almighty, Lord Shiva who gives me quality, Courage and good help through all periods of my life.