CHAPTER 5
RESEARCH METHODOLOGY

The main points of the research methodology are briefly listed below:

- A well-designed questionnaire (appears in Appendix II) was prepared that consisted of a large number of questions relating to just-in-time (JIT), its important elements, its prerequisite requirements such as manufacturing environment, supplier relationship, workforce involvement, organizational set-up, etc., its current status and hurdles in its implementation in context of Indian industries. About 46 relevant questions were included in the questionnaire.

- A large number of industries (about 102 industries; list appears in Appendix III) ranging from electrical, mechanical, automobiles, etc. located in NCR region especially in Faridabad district of Haryana state were included in the questionnaire for JIT analysis. This zone is an industrial hub having many industries of national repute.

- Face-to-face interviews with the senior representatives of the companies were conducted and discussion took place regarding issues concerning JIT implementation.

- Many of the above listed Indian industries were visited to find out the actual work environment with respect to JIT implementation. In this context five important Case Studies relating to various components of JIT implementation are included in the study and are given in Appendix I. The case studies include various components of JIT implementation such as *Supply Chain Management in Maruti Suzuki India Limited and Mother Dairy, Setup Time in Brakes India Pvt. Ltd.*, *Production Scheduling in LG Electronics India Pvt. Ltd.*, and *Production System in Lucas TVS Ltd.*

- The answers received through the questionnaire, holding discussions with the representative of industrial units, observations received during industrial visits and secondary data obtained from articles and other sources were thoroughly examined and analyzed comprehensively to arrive at conclusive results.