Research Methodology

4. Hypothesis:

At the current level of maturity of software industry and the standards adopted to manage the software, there are many areas that need improvement. The detailed account of these areas shall be investigated and listed in the proposed research. This is expected to help software industry in many ways, some of these aims are:

1. Giving a way for customer’s voice to be heard in improving the quality of the deliverables and ensuring that the assessment agencies have the information to take corrective actions.

2. To enable quality assessment agencies to form into consortiums to provide worldwide services so that offsite quality is ensured. Such consortiums shall have multiple benefits that will be suggested in the research.

3. Solutions to develop software quality standards tailored to different lines of software activities from other areas of quality managements that are successfully developed and employed for the benefit of service providers and clients

4. To involve all stakeholders in developing the relevant quality standards

5. Work Plan & Research Methodology:

The research methodology tentatively involves following steps which may change in the course of progressing into the research:

A. Quality Standards:

A.1 Studying of current quality standards relevant for software activities and compare them

A.2 To assess their strengths and improvement areas
A.3 Proposing suitable solutions to over the weaknesses so that an integrated software quality management standard can be developed

A.4 To involve the different stakeholders in the development of quality standards

B. Quality Assessment Standards:

B.1 Studying of current quality appraisal standards and compare them

B.2 To assess their strengths and improvement areas wrt to the quality management standards they are addressing

B.3 Proposing suitable solutions to cover the relevant areas of software domain

C. Other Related issues:

Apart from addressing the issues related to Software Quality standards and Quality assessment, there are many issues that need to be addressed. A detailed list of these issues shall be researched and mentioned in the research. Some of these issues and possible remedies are listed in Hypothesis section of this synopsis