CHAPTER - VI
SUMMARY AND CONCLUSION

Acceptance sampling is a technique which deals with the procedures in which decisions to accept or reject lots or processes based on the examination of samples. The work presented in this thesis is mainly relates to a new procedure for the construction and selection of mixed sampling plans indexed through the Six Sigma Quality Levels SSQL-1 and SSQL-2.


Balamurugan (2011) constructed Six Sigma based Control Charts for Mean, Range, Standard Deviation, Regression and Cumulative-Sum. Also constructed Six Sigma based Control Charts for attributes.

The Plans, Schemes and Systems suggested in this thesis can replace the existing sampling plans, because those plans are constructed based on three sigma levels only. If these sampling plans are used, all the lots submitted for inspection will be accepted (including the bad lots).

As more and more companies started adopting Six Sigma initiatives, it is absolutely necessary to use the plans suggested in this thesis for inspection. This will not only help the producers in providing better quality but also increase the satisfaction and confidence of the consumers. The sampling plans based on Six Sigma Quality Levels are designed to the manufacturing industries. To make this idea very clear and easy to understand, each chapter in this thesis is provided with different practical applications along with pictures.

If all the companies practicing with Six Sigma quality initiatives started using the plans suggested in this thesis, then not only the quality and confidence on their product will reach its new height but also enhance the satisfaction of the consumer.

RECOMMENDATIONS

The following are important recommendations and guidance for future research.

- The companies adopting Six Sigma initiatives necessarily have to use these plans to decide either to accept or reject the lot submitted.

- Construction of Mixed Sampling Plans, Sampling Schemes and Sampling Systems indexed through Six Sigma Quality Levels are discussed in the thesis by taking the Poisson Distribution as the base line distribution only. The sampling plans can also be constructed by changing the suitable base line distributions using the procedure outlined in this thesis and their efficiencies can be compared.