Chapter VI

Conclusion
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In this thesis a new procedure for the construction and selection of Reliability based mixed sampling plans (RMSPs) indexed through various parameters is presented. These plans are different from variable sampling plans, attribute sampling plans and mixed sampling plans and are more useful to the producers as well as consumers in increasing the confidence because it is a mixture of Reliability variable and attribute sampling plans. The practical application of these plans is also explained in this thesis through examples. These plans will be more beneficial to the engineers working on the floor of the company in making quick decisions whether to accept or to improve the quality of the lot submitted for the inspection. It is concluded from the study that the sampling plans constructed through MAAOQ are having lesser sample size and more probability of acceptance than the sampling plans constructed through AQL, IQL, LQL and MAPD. This was also established by Suresh and Ramkumar (1996) for Single sampling plans and Radhakrishnan (2002) for Double, Continuous, Chain, Link and Repetitive group sampling plans.

This study can also be extended by using intervened random effect Poisson distribution suggested by Radhakrishnan and Sekkizhar (2007a), weighted Poisson distribution suggested by Radhakrishnan and MohanaPriya (2008) as baseline distribution instead of Poisson distribution. The study can be extended to construct sampling plans to suit the industries which adopt six sigma initiatives in the process through six sigma quality levels suggested by Radhakrishnan and Sivakumaran (2008). Further the study can be conducted in developing Reliability based mixed sampling plan with dependent case instead of independent case also.