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Selection of Multiple Repetitive Group Sampling plan involving Maximum Allowable Percent Defective and Maximum Allowable Average Outgoing Quality*

K. K. Suresh† **and** R. Saminathan‡

Abstract

Shankar and Joseph (1993) have proposed multiple repetitive group sampling plan as an extension of the conditional RGS plan in which acceptance or rejection of a lot on the basis of repeated sample results, dependent on the outcome of inspection under a RGS inspection system of the preceding lots. Bagyalakshmi (1994) has given the procedure for the selection of multiple RGS plan using producer and consumer quality level, with usual level of risks. Suresh and Ramkumar (1996) have introduced maximum allowable average outgoing quality (MAAOQ), which is defined as the average outgoing quality at MAPD for single sampling plan. This methodology is used for selection of MRGS plan. Tables are also provided for the selection of the plan. Conversions of parameters are also studied through numerical illustrations.

Key words and phrases: Multiple repetitive group sampling plan, maximum allowable percent defective, maximum allowable average outgoing quality, consumer quality level, selection of plan.
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†*Mailing Address:* Professor and Head, Department of Statistics, Bharathiar University, Coimbatore -641 046. India. *E–mail:* sureshkk1@fastmail.fm.

‡*Mailing Address:* Research Scholar, Department of Statistics, Bharathiar University, Coimbatore -641 046, India.