

ABSTRACT

EWMA statistic is used when we have to utilize past information about lot as well as present information. By using this statistic chance to accept bad lot and chance to reject good lot minimized. In this study a mixed (variable +attribute) multiple dependent state sampling plan using EWMA statistic is developed for the characteristics of interest that follows normal distribution by considering both known and unknown sigma case. Parameters of proposed plan are determined by satisfying producer's and consumer's risks simultaneously. For different values of λ that is weighting factor in EWMA statistic, Tables are presented for known and unknown sigma by considering various values of AQL and LQL. Operating procedure of proposed plan is shown by figure 1. Comparison of proposed plan is made with existing plans and it is concluded that proposed plan is efficient in terms of sample size as compare to existing plans.