Generally, there are two types of censored data in life testing experiment, they are type I and type II censored data. One of life distribution is Modified Weibull distribution with parameters. Least Square Procedure and Maximum Likelihood Estimators were used to estimate the parameters of this distribution based on Type II censored data. Maximum Likelihood procedure to derive the point estimates were get likelihood function then getting parameters that maximize likelihood function. Least Square Procedure to derive Least Square Estimators were construct least square function then getting estimators. System of non linear equations were getting from Maximum Likelihood Method. To find out maximum likelihood estimators of parameters, System of non linear equations were solved using Newton-Raphson Method. nonlinear equation for was getting from LSE. To obtain Least Square estimators, nonlinear equation was solved using Newton-Raphson Method.

**Keywords:** Modified Weibull Distribution, censored data type II, Maximum Likelihood Estimators, Least Square Procedure.
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