



**EXPLORATION OF THE FACTORS IMPACTING
AIRCRAFT SPARE PARTS SUPPLY DELAY IN SRI
LANKA AIR FORCE**

By

**WAAI WITHANA
(502MSS19051)**



A Dissertation Submitted to

**GENERAL SIR JOHN KOTELAWALA DEFENCE
UNIVERSITY, SRI LANKA**

In partial fulfilment of the requirement for the award of the degree

of

MBA in Logistics Management

18th JAN 2024

ABSTRACT

Sri Lanka Air Force established its airfields in Anuradhapura, Batticaloa, and Sigiriya. With the beginning of the civil war in 1983, the strength of the Air Force grew significantly resulting in 3,700 personnel presences as of 1987. The Air Force fleet consisted of 80 aircraft in 1988 with 64 of them with operating status. Aircraft maintenance is a critical and challenging requirement to manage the health of the fleet. Scheduled maintenance activities reduce the cost of unpredicted repairs and unnecessary costs. Even with predicted repairs, unpredicted repairing requirements are subjected to arise. To perform predicted repairs on time and unpredicted repairs with minor lead time, the availability of spares is crucial. The inability to continue the process may add unnecessary costs. SLAF follows government procurement processes and procedures within a limited budget. Therefore, the main objective of the study is to identify the factors impacting aircraft spare parts delay in Sri Lanka Air Force. The current research focused on a quantitative approach employing a questionnaire-based survey strategy, which is one of two well-known general approaches to research design, quantitative and qualitative approaches.

Keywords: Government Procurement, Lead Time, Sri Lanka Air Force, Aircraft Spares