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ABSTRACT

Sri Lanka Navy is playing a vital role to safeguard the country and territorial waters as the first line of defence. SLN has a huge demand to establish automated systems to overcome difficulties and increase the efficiency. Cyber Security Unit was established to protect Information and Information Communication Technology assets from various cyber threats. SLN has implemented various security measurements to safeguard the servers and information systems from intrusions and unauthorized access with establishing firewalls, intranet, anti spam servers, basic anti virus and ect. Even though with some security measures, few critical incidents took place during past years in SLN Cyber Domain such as, a botnet, mail server crashed due to the reason of poor management of the backups and many virus issues in regularly. As a defence organization without assessment the effectiveness of a Cyber Security activities would be a critical issue not to SLN but also to the national security. Therefore, main research objective is to study the effectiveness of Cyber Security Framework in Sri Lanka Navy through the lapses in present practices in the cyber security activities. This research is based on five main variables Flexibility, Standards, Discipline and Infrastructure as independent variables and Effective Cyber Security Framework in Sri Lanka Navy as the dependant variable. The aim of the research is to measure the effectiveness of Cyber Security Framework and relationship between those variables. Primary data collected through the naval personnel from the IT branch and cyber security cell using disproportionate stratified random sampling method. As per the findings of the study, it can be concluded that the effectiveness of the Cyber Security Framework is negatively correlated. Further, relationship between effectiveness with Flexibility, Standards, Discipline and Infrastructure are positively correlated. Using the collected data through the primary and secondary sources, the study was able to achieve the objectives. Further, under recommendations and conclusion chapter it is discussed that viable recommendations to uplift the effectiveness of the Cyber Security Framework of SLN.