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ABSTRACT

Most of the ships available in Sri Lanka Navy (SLN) are considerably old and the systems as well as equipments fitted are out dated. As a result, SLN face many challenges and difficulties during maintaining and repairing these units. As per the records available in SLN, it is noticed that most of docking related repairs conducted within SLN did not complete according to the schedule. This delay in completion of repairs had significant effects on subsequent repairs and refits. Further, it directly affects to maintain the healthy operational availability of SLN Fleet and further deteriorating the condition of ships. Therefore, it is require identifying relevant factors which lead to delay completion of docking related repairs of aged ships in SLN in order to take remedial actions to reduce the delay. Once after carrying out the literature survey with related to the topic researcher selected four factors to be tested with delay completion of docking repairs as spare parts constraints, unexpected work growth during docking repairs, infrastructure constraints at repair yards and work force constraints. Considering these variables, researcher has formulated four hypotheses. The sample of the study has taken as 140 naval personnel in SLN Dockyard Trincomalee who are engaged with docking related repairs of Fast Gun Boats (FGB). Data collected by distributing structured questionnaires. Data analysed through SPSS software and research findings are illustrated using graphs, charts and tables. As per the derived research findings, all hypotheses are accepted and researcher came to the conclusion that spare parts constraints, unexpected work growth during docking repairs, infrastructure constraints at repair yards and work force constraints are significantly contribute to the delay completion of docking repairs of aged ships in SLN fleet.