

ABSTRACT

This study is related to port congestion and port performance based on the Colombo port in Sri Lanka. Sri Lanka has started many economic revolutions and infrastructure developments to manage their economic activities and practices. In this stage, the port is an essential destination for the Sri Lankan economy and other economic activities. The main aim of this study is to find the impact of port congestion on port performance. During this study, the researcher has mainly identified past evidences that is significant for the research and the researcher used same past evidences to build the structure of the study as well. During this study, the researcher's main objectives was to understand the port congestion issues, to identify significant factors contributed and find better recommendation related to the port congestion / port. This study can be categorized under the positivism research philosophy, deductive approach, explanatory research design, and case study research strategy under the research methodology. Also, the researcher has identified a statistical test for the test hypothesis under the research methodology. During this study, correlation analysis and time series analysis are primary analysis methodologies under the statistical test. During descriptive analysis, the researcher has found that throughput has been increased over the last five years, and it can increase their throughput systematically. The researcher has also found a high demand for mass scale vessels in the future, and apparently, many shipping lines use mass-scale ships for delivery. As a result, Colombo port should develop their infrastructures as per their requirements with deep depths container terminal and other conditions to achieve operational objectives and increase port performance with managing port congestions. As research findings, the researcher has identified port congestion at Colombo port due to an increasing number of massive vessels and increased volume of existing services from only CICT. In case pilot delays, piled up vessels for berthing, yard congestions due to subcontinent ports, delay connections, and weather conditions have been affected for port congestion. Under the second objective, the shipping line is stuck under the port congestion due to increasing operational expenses and additional payments. Cargo companies and beneficiaries of port operations have negatively affected port congestions. Finally, the researcher can recommend ECT development, dry port development, and better management functions to manage port congestion and port performance.

Keywords: Port congestion, Terminal, Port performance