**TRAFFIC AND CAPACITY ANALYTICS FOR MAJOR PORTS**

**TEAM LEADER :**

**TEAM MEMBERS :**

**GUIDE :**

**INTRODUCTION :**

Signalized traffic control has significant effect on reducing vehicle delays at intersections, balancing traffic flow, and improving operational efficiency of an urban street network.The intersection signal control systems can be largely classified into fixed-time or real-time adaptive signal control systems, such as SCAT and SCOOT.The modeling of the intersection signal control system is usually based on the changes of traffic volumes. In past days the use of fixed time traffic signal and vehicle actuated traffic signal is more. Now a days many other techniques are used to optimize delay and to control traffic flow, adaptive traffic signal controllers are one of them to optimize traffic signal, different types of algorithms are used to make best adaptive traffic signal controllers, different types of algorithms are highlights of this paper.

Ports provide a direct access to the world markets and a tremendous opportunity for developing trade with a wide range of countries. Many industrial and agricultural development projects depend on the availability of the ports. Therefore, the ports are engines of the growth and development for the economies.

**OBJECTIVE :**

Ports serve as an important link in global supply chain. Worldwide more than 75 percent of cargo move by sea. Over the years, the Indian Union has endeavoured to invest on major ports of the country to meet up to the global standards. Yet the share of major ports under the government of India has decrease from 90 to 70 percentage of total sea borne cargo in the country.

Maritime transport is a decisive infrastructure for the social and economic development of a nation. Therefore ports are one of the key infrastructures of the maritime transport of a country. In recent years, there has been a growing interest in India and in other parts of the world with regard to the development of ports and subsequently the growth. The growth of modern ports is dependent on factors such as volume, composition, size and expansion of trade of a whole country.

**LITERATURE SURVEY :**

In this study, the port capacity topic was addressed through content analysis. Content analysis is a research technique that allows categorization of the text and can be repeated with the purpose of the research.With this technique, words in a text can be categorized as more specific word groups. Thus, the data obtained through literature review can be well-understood and the concept can be investigated more comprehensively.Systematic literature review in this study adopts Seuring and Gold approach which consists of four steps, namely (i) data collection, (ii) descriptive statistics, (iii) category selection, (iv) data evaluation. The data collection process explains the determination process of keywords, topics, and scope of the journal, descriptive statistics include the related statistics of the port capacity literature, category selection indicates the inductive and deductive category building that subjected to the analysis. Finally, the data analysis section includes the iterative codes and the sub-categorization of these codes.

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