

## Abstract

Transportation is considered as one of the key drivers in supply chain and it comes under strategic non-core functions of the Sri Lankan textile organizations. Inefficient performance in the transport function will impact the organizations' bottom line. Therefore it is very crucial to have proper performance evaluation mechanism in place for road transporters of textile sector. This study proposes a logical performance evaluation method for road transport service providers in Sri Lankan organizations in textile sector. According to the literature review and analysis, it can be stated that there is a clear research gap for research problem of none availability of logical performance evaluation method for textile road transport service providers and it has not been addressed by past studies in the Sri Lankan context. Therefore, the study in research covers the said research gap. The study was conducted to find out the ultimate objective of developing a logical performance evaluation method for textile road transport service providers in Sri Lanka. The study was carried out among top fifteen textile export companies in Sri Lanka and data collected by using a structured questionnaire. Sampling technique consisted of two step process, the first step was adopt purposive sample technique under none probability sampling technique to select seventy five (75) samples among top fifteen textile exporting companies. As a second step; adopt simple randomly sampling method under probability sampling to select equal number of five respondents from each company. The study confirmed none availability of appropriate textile road transport service providers' performance evaluation mechanism in Sri Lanka. Fulfilling the research gap, the study has find out weightages of main criteria of evaluation by adopting the Analytical Hierarchy Process (AHP) model. The study identified that "Speed" was the number one main criteria of evaluation which had a weightage of 22.94%, while "Flexibility" and "Quality" being the second and third by having a weightage of 20.68%, 20.29% respectively. Further, "Cost" and "Other Supporting" were the next two main criteria in the hierarchy by having a weightage of 19.01% and 17.08% respectively. Furthermore, the mentioned weightages express appropriation of selected main criteria for evaluation of road transport service providers. As per AHP, Consistency Ratio (CR) was 5.83% < 10% and shows the consistency in the judgments of respondents. Finally by consolidating main and sub criteria; author had developed "Textile Road Transporter Performance indicator (TRTPI)" as logical performance evaluation method to evaluate the performance of road transport service providers in Sri Lankan textile sector.

**Key Words:** Analytical Hierarchy process, Main and Sub criteria, logical performance evaluation, Textile Road Transporter Performance indicator