ABSTRACT

This study has been conducted to elaborate the environmental and socio-economic impacts that result from industrial hazardous waste due to improper management of inbound logistics activities of tyre manufacturing industries. The study area will be taken as Export Processing Zone in Biyagama to reduce the impact for natural environment. Industries must design and implement best environment protection practices with appropriate waste disposal strategies. To achieve the aim of this study, the inbound logistics activities of Transport, Warehouse, Stores, and Reverse Logistics are used as independent variables. Also the environment impact is used as the dependent variable, and it was broadly categorized into four categories as the HR impact, and Public Community Service impact. The main objective of this study is required to identify the environmental impact of Warehouse Activities, How Transport Activities and factors influence on the environmental, find out how far is Stores related factors influence the environment, and to identify how far the Revers Logistics Activities influence the environmental impact. As the sample for the quantitative study 150 employees and village employees were selected using random sampling method, while for the qualitative study 15 numbers of village employees were selected using judgmental sampling method and used thematic approach as a tool to analysis data. Five-Point Likert-scale questionnaire-base survey method was used for the quantitative study while for the qualitative study it used the interview method in focused group. In the qualitative analysis, it was able to find out the indicators or attributes of each variable as sub-themes. Then based on the sub-themes or attributes as recognized as an outcome of qualitative study, the questionnaire was developed and the responses to the questionnaire was statistically estimated by used in quantitative analysis. The quantitative analysis was composed of univariate analysis, correlation analysis, path analysis, with the help of SPSS 22 and smart PLS. As a conclusion it was found the negative impact of environmental pollution accumulates and appears as a serious problem after many years if not managed properly now. Therefore, the government should get more attention to manage waste in proper manner to avoid the future problems and to achieve sustainable development in the country.

Keywords: Transport, Warehouse, Reverse Logistics, Environment Impact,